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NEWS 6 Apr 22 Records from IP.com available in CAPLUS, ICAPLUS, and ZCAPLUS

NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER

NEWS 8 Apr 22 Federal Research in Progress (FERIP) now available

NEWS 9 Jun 03 New e-mail delivery for search results now available

NEWS 10 Jun 10 MEDLINE Reload

NEWS 11 Jun 10 PCTFILE has been reloaded

NEWS 12 Jul 02 FORCIG no longer contains STANDARDS file segment

NEWS 13 Jul 22 USAN to be reloaded July 28, 2002; saved answer sets no longer valid

NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY

NEWS 15 Jul 30 NLEFEST to be removed from STN

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NEWS 17 Aug 08 PHARMAMarket letter (PHARMAML) - new on STN

NEWS 18 Aug 08 NUIS has been reloaded and enhanced

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NEWS 20 Aug 19 IFIPAT, IFICDB, and IFUDB have been reloaded

NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded

NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced

NEWS 23 Sep 03 JAPIC has been reloaded and enhanced

NEWS 24 Sep 16 Experimental properties added to the REGISTRY file

NEWS 25 Sep 16 Indexing added to some pre-1967 records in CACAPLUS

NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA

NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d.

CURRENT MACINTOSH VERSION IS V6.0a (FNG) AND V6.0a (P).

AND CURRENT DISCOVER FILE IS D411 D05

FEBRUARY 2002

NEWS HOT LIPS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002

FILE	MEDLINE	ENTERED AT	15:05:39	ON	02 OCT 2002
COST IN U.S. DOLLARS	ENTRY	SESSION	TOTAL		
FILE ESTIMATED COST		0.21	0.21		

FILE 'MEDLINE' ENTERED AT 15:05:47 ON 02 OCT 2002

FILE 'BIOSIS' ENTERED AT 15:05:47 ON 02 OCT 2002
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11 microcell mediated chromosome transfer
11 482 MICROCELL MEDIATED CHROMOSOME TRANSFER

12 electroporation
12 11852 ELECTROPORAT?

13 and 12
13 211 AND 12

14 dup rem 13
PROCESSING COMPLETED FOR 13
14 2 DUPLICATES REMOVED

15 and 12

14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
11 Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human chromosome
SO PCT Int. Appl. 149 pp.
CODEN: PIXXD2

14 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 Culture of Specialized Cells Series: DNA transfer to cultured cells.
SO Ravid, K. [Editor]; Freshney, R. L. [Editor]. (1998) pp. xvi + 296p.
Culture of Specialized Cells Series: DNA transfer to cultured cells.
Publisher: Wiley-Liss, Inc. 605 Third Avenue, New York, New York 10158-0012 USA.
ISBN: 0-471-16572-7

15 and 12

14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER 2002 276267 CAPLUS
DOCUMENT NUMBER 136 289911
1111 Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human chromosome
INVENTOR(S) Beaudet, Arthur; Bodamer, Olaf; Killary, Ann; Foxell, Mercedes

PATENT ASSOCIATES - Board of Regents, the University of Texas
System, USA
SOURCE Patent Appl. 14/119
CODE: P15XND2

DOCUMENT TYPE Patent

LANG: AGI English

FAMILY APP: NUM COUNT 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2002/29107 A2 20020411 WO 2001/4830965
20011002
WI: AT, AU, AL, AM, AR, AT, AZ, BA, BE, BG, BR, BY, BZ,
CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,
GL, GR,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,
NZ, PH, PL,
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
UG,
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM,
RW, GH, GM, KE, LS, MW, MZ, SD, SE, SZ, TZ, UG, ZW, AT,
BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IL, IT, LU, MC, NL, PL, SE, TR,
BE,
BI, BT, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
TG,
US 2002117067 A1 20020926 US 2001-969861 20011002
PRIORITY APP: NUM COUNT 1 US 2000-237471P P 20001002
AB The present invention relates to a method for detection and
interpretation
of loss-of-function or gain-of-function mutations for test genes of
interest. The genes of interest include those associated with inherited
genetic disorders. The method involves testing for gene function by
transferring single copies of individual human chromosomes into a
suitable
host cell. Human cells are obtained from peripheral blood. Transfer
is
preferably by **microcell-mediated chromosome
transfer**. Transfer is screened for anal. of expression of a
marker gene closely linked to the gene of interest. Guidelines for the
selection of host cells and marker genes that can be used to detect
transfer are described. The preferred markers are cell surface
proteins
such as ICAM-1 that can be easily assayed or used for fluorescence
activated cell sorting. The method is demonstrated by detection of a
mutation in the human FcγR receptor gene on chromosome 19 using
CHO cells
as a host.

14 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC

ACCESSION NUMBER 1999118717 BIOSIS

DOCUMENT NUMBER PRIA199900118717

TITLE Culture of Specialized Cells Series: DNA transfer to
cultured cells

AUTHOR(S) Ravid, Katya (1) [Editor]; Freshney, R. (1) [Editor]
CORPORATE SOURCE (1) Dep. Biochem., Boston Univ. Med.
Cent., Boston, MA, USA

SOURCE Ravid, K. [Editor]; Freshney, R. L. [Editor]. (1998)

PP. xvi+296p. Culture of Specialized Cells Series: DNA

transfer
to cultured cells.

Publisher: Wiley-Liss, Inc. 605 Third Avenue, New York,

New
York 10158-0012, USA.

ISBN: 0-471-16572-7

DOCUMENT TYPE Book (MANUAL)

LANG: AGI English

AB This book is part of a series of detailed procedural reference
manuals on

the topic of the culture of specialized cells. The 14 individually
authored chapters contain practices and protocols for such procedures

as
electroporation of DNA into cultured cell lines, calcium phosphate
transfection, and mapping human senescence genes using **microcell
-mediated chromosome transfer**. Each chapter
contains an introduction, a list of materials, stepwise instructions and
references. The volume includes a list of suppliers. This
methodology
text, which is indexed and illustrated with tables and figures, should
be

a valuable reference tool for those interested in the genetic
modification
of human cells for transplantation into genetically deficient hosts,
fundamental research in molecular genetics, regulation of
development in
normal and transformed cells, and the generation of
biopharmaceuticals.

--d his

FILE HOME ENTERED AT 15:05:39 ON 02 OCT 2002

FILE MEDLINE BIOSIS, CAPLUS ENTERED AT 15:05:47 ON
02 OCT 2002

11 482 S MICROCELL-MEDIATED CHROMOSOME
TRANSFER

12 11852 S ELECTROPORAT?

13 2 S ELECT?

14 2 DUPLICATES (0 DUPLICATES REMOVED)

--s electrotransfect?

15 172 ELECTROTRANSFECT?

--s transfect and electric?

16 26 TRANSFECT AND ELECTRIC?

--s transfect? and pulse

17 2095 TRANSFECT? AND PULSE

--s chromosome

18 552069 CHROMOSOME

--s 17 and 18

19 4117 AND 18

--d dup rem 19

PROCESSING COMPLETED FOR 19

110 23 DUPLICATES (18 DUPLICATES REMOVED)

--d to so 1-23

110 ANSWER 1 OF 23 MEDLINE DUPLICATE 1

11 Thioredoxin reductase is essential for the survival of Plasmodium
falciparum erythrocytic stages.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Jul 19) 277
(29) 25970-5.

Journal code: 2985121R, ISSN: 0021-9258.

110 ANSWER 2 OF 23 MEDLINE DUPLICATE 2

11 SY1-SSX is critical for cyclin D1 expression in synovial sarcoma
cells: a

gam of function of the t(X;18)(p11.2;q11.2) translocation.

SO CANCER RESEARCH, (2002 Jul 1) 62 (13) 3861-7.

Journal code: 2984705R, ISSN: 0008-5472.

110 ANSWER 3 OF 23 MEDLINE DUPLICATE 3

11 Association of sodium channel gamma-subunit promoter variant
with blood
pressure.

SO HYPERTENSION, (2001 Jul) 38 (1) 86-9.

Journal code: 7906255, ISSN: 1524-4566

E10, ANSWER 4 OF 23 - CAPLUS, COPYRIGHT 2002 ACS
H- Studies on the interaction between actinophage phC31 and Streptomyces nanchangensis

SO: Hubei Daxue Xuebao, Ziran Kexueban (2001), 23(1), 82-86
CODEN: HDBXJAL, ISSN: 1000-2775

E10, ANSWER 5 OF 23 - MEDLINE
H- Circular YAC vectors containing short mammalian origin sequences are maintained under selection as *HeLa* episomes

SO: JOURNAL OF CELLULAR BIOCHEMISTRY, (2000 Jan) 76(4) 674-85
Journal code: 8205766, ISSN: 0730-2312

E10, ANSWER 6 OF 23 - CAPLUS, COPYRIGHT 2002 ACS
H- **Transfection** of muscle cells using low-voltage electrical pulses

SO: PCT Int. Appl., 97 pp.
CODEN: PIXND2

E10, ANSWER 7 OF 23 - CAPLUS, COPYRIGHT 2002 ACS
H- **Transfection** of cells of multicellular organisms in vivo using low-voltage electrical pulses

SO: PCT Int. Appl., 74 pp.
CODEN: PIXND2

E10, ANSWER 8 OF 23 - MEDLINE
H- Biosynthesis and intracellular targeting of the CFN3 protein defective in

Batten disease.
SO: HUMAN MOLECULAR GENETICS, (1998 Jan) 7(1) 85-90.
Journal code: 9208958, ISSN: 0964-6906

E10, ANSWER 9 OF 23 - MEDLINE
H- Mutation of a conserved cysteine in the X-linked cone opsins causes color

vision deficiencies by disrupting protein folding and stability.
SO: INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCES, (1997 May) 38(6) 1074-81.
Journal code: 7703701, ISSN: 0146-0404

E10, ANSWER 10 OF 23 - MEDLINE
H- Biochemical and genetic characterization of multiple splice variants of

the Fh3 ligand.
SO: BLOOD, (1996 Nov) 88(9) 3371-82.
Journal code: 7603509, ISSN: 0006-4971

E10, ANSWER 11 OF 23 - MEDLINE
H- A new and efficient method for gene transfer into mouse FM3A cells using

metaphase **chromosomes** by electroporation.
SO: BIOSCIENCE, BIOCHEMISTRY, AND BIOCHEMISTRY, (1996 Nov) 60(11) 1879-81.
Journal code: 9205717, ISSN: 0916-8451

E10, ANSWER 12 OF 23 - MEDLINE
H- Molecular cloning and characterization of murine interleukin-11.
SO: EXPERIMENTAL HEMATOLOGY, (1996 Oct) 24(12) 1369-76
Journal code: 0402313, ISSN: 0191-472X

E10, ANSWER 13 OF 23 - MEDLINE
H- Assembly and localization of the U1-specific snRNP protein in the amphibian oocyte.

SO: JOURNAL OF CELL BIOLOGY, (1992 Dec) 119(5) 1037-46
Journal code: 0375356, ISSN: 0021-9525

E10, ANSWER 14 OF 23 - MEDLINE
H- Molecular complementation of a collagen mutation in mammalian cells using

yeast artificial **chromosomes**

SO: EMBO JOURNAL, (1992 Feb) 11(2) 417-22
Journal code: 8206664, ISSN: 0261-4189

E10, ANSWER 15 OF 23 - MEDLINE
H- Characterization of an insulin receptor mutant lacking the subunit processing site

SO: JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 May) 265(15) 8463-9
Journal code: 2985121E, ISSN: 0021-9258

E10, ANSWER 16 OF 23 - MEDLINE
H- Autonomous replication of a DNA fragment containing the chromosomal

replication origin of the human c-myc gene.
SO: NUCLEIC ACIDS RESEARCH, (1990 Mar) 18(5) 1233-42.
Journal code: 0411011, ISSN: 0360-3805

E10, ANSWER 17 OF 23 - MEDLINE
H- Analysis of a soluble mutant des-methionine interleukin-2 receptor alpha

chain (Tac protein) produced by **transfected** mammalian cells.
SO: EUROPEAN JOURNAL OF BIOCHEMISTRY, (1990 May) 20(189) 657-65.
Journal code: 0107609, ISSN: 0014-2956

E10, ANSWER 18 OF 23 - MEDLINE
H- Analysis of the trans-phenotype of MEL **transfectant** cell lines reveals that MEL activation is accompanied by an interstitial insertion

SO: HUMAN GENETICS, (1990 Feb) 84(3) 274-8.
Journal code: 7613873, ISSN: 0340-6717

E10, ANSWER 19 OF 23 - MEDLINE
H- Intracellular transport of rat serum albumin is altered by a genetically

engineered deletion of the propeptide.
SO: JOURNAL OF BIOLOGICAL CHEMISTRY, (1989 Dec) 264(35) 20843-6.
Journal code: 2985121R, ISSN: 0021-9258

E10, ANSWER 20 OF 23 - MEDLINE
H- Selective secretion of alternatively spliced fibronectin variants.
SO: JOURNAL OF CELL BIOLOGY, (1989 Dec) 109(6 Pt 2) 3445-53.
Journal code: 0375356, ISSN: 0021-9525

E10, ANSWER 21 OF 23 - MEDLINE
H- A frameshift mutation results in a truncated alpha 1-antitrypsin that is

retained within the rough endoplasmic reticulum.
SO: JOURNAL OF BIOLOGICAL CHEMISTRY, (1988 May) 263(15) 7330-5.
Journal code: 2985121R, ISSN: 0021-9258

E10, ANSWER 22 OF 23 - MEDLINE
H- An amino-terminal deletion mutation of pseudorabies virus glycoprotein

gH affects protein localization and RNA accumulation.
SO: JOURNAL OF VIROLOGY, (1988 Oct) 62(10) 3565-73.
Journal code: 013724, ISSN: 0022-538X

E10, ANSWER 23 OF 23 - BIOSIS, COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

H- AN X-LINKED GENE AFFECTING MOUSE CELL DNA SYNTHESIS ALSO AFFECTS PRODUCTION OF UNINTEGRATED LINEAR AND SUPER COILED DNA OF MURINE ERYTHROBLAST

SO: MOLECULAR BIOLOGY, (1984) 4(1), 151-159.
CODEN: MCBBD4, ISSN: 0276-7306

(d) bibab 14,11,7,6,5

110. ANSWER 14 OF 23 MEDLINE DUPLICATE
ACCESSION NUMBER: 92164627 MEDLINE
DOCUMENT NUMBER: 92164627 PubMed ID: 1537326
TITLE: Molecular complementation of a collagen mutation in
mammalian cells using yeast artificial **chromosomes**

AUTHOR: Strauss W.M., Jaenisch R.
CORPORATE SOURCE: Whitehead Institute for Biomedical
Research, Massachusetts
Institute of Technology, Cambridge 02142.
CONTRACT NUMBER: 5F32 GM13756-02 (NIGMS)
SERIAL: 5 CAN4439-05 (NCB)
H0600-98-01 (NHGRI)
SOURCE: EMBO JOURNAL (1992 Feb 11 (2):417-22.
Journal code: 8208664 ISSN: 0261-4189.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199203
ENTRY DATE: Entered STN: 19920417
Last Updated on STN: 19950206
Entered Medline: 19920331

AB: The cloning of large contiguous segments of mammalian DNA in
Saccharomyces cerevisiae has become possible with the advent of Yeast Artificial
Chromosomes (YACs). We are interested in extending the technique
of genetic complementation analysis to the molecular level through
the introduction of YACs into mammalian cells and the mammalian
germline. We report the successful introduction of homogeneous DNA derived
from a 150 kbp YAC spanning the murine Col1a1 locus into murine fibroblasts
carrying a mutation at this locus. The YAC DNA was fractionated by **pulse**
field electrophoresis, condensed with polyamines, and introduced
into mutant fibroblasts via DNA-lipid micelles. The DNA was integrated
as a stable intact unit in 10% of the **transfected** clones conferring
collagen RNA expression to the mutant cells.

110. ANSWER 11 OF 23 MEDLINE DUPLICATE 5
ACCESSION NUMBER: 97141609 MEDLINE
DOCUMENT NUMBER: 97141609 PubMed ID: 8987867
TITLE: A new and efficient method for gene transfer into mouse
EM3A cells using metaphase **chromosomes** by
electroporation.

AUTHOR: Ohsie M., Tsuchida E., Tomita H., Taketo A., Kimoto
H., Kisoie H.
CORPORATE SOURCE: Department of Applied Physics and
Chemistry, Faculty of
Engineering, Fukui University of Technology, Japan.
SOURCE: BIOSCIENCE, BIOTECHNOLOGY, AND
BIOCHEMISTRY, (1996 Nov) 60
(11: 1879-81).
Journal code: 920517, ISSN: 0916-8451.

PUB. COUNTRY: Japan
DOCUMENT TYPE: Journal Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Biotechnology
ENTRY MONTH: 199702
ENTRY DATE: Entered STN: 19970306
Last Updated on STN: 19970306
Entered Medline: 19970224
AB: We introduced **chromosome**-mediated genes into mouse thymidine
kinase-deficient EM3A (EM3At-) cells, by electroporation. The
effects of some parameters on the electric shock-mediated **transfection** of
EM3At- cells were investigated. Gene transfer of mouse E29
metaphase **chromosome** DNA into EM3At- resulted in a maximum frequency

of $3.0 \times 10^{-5} \times 10^{-5}$ at a cell density of 2.0×10^8 ml and
chromosome dosage of 5.0×10^7 cell equivalents ml in a buffer
containing 0.25 M mannitol, 0.5 mM MgCl₂, 0.1 mM CaCl₂, and 1
mM Tris-HCl.

At pH 7.1, the highest yield of the transformants was obtained at an
electric field strength of 1 kV/cm and a capacitance of 35 microF,
with a single exponentially decaying **pulse** at 0 degrees C was optimal
for post-shock incubation after electroporation. The tk gene was
detected in the transformants by in situ hybridization analysis.

110. ANSWER 7 OF 23 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 199953426 CAPLUS
DOCUMENT NUMBER: 130106017
TITLE: **Transfection** of cells of multicellular
organisms in vivo using low-voltage electrical
pulses

INVENTOR(S): Bureau, Michel; Mir, Eliss; Scherman, Daniel
PATENT ASSIGNMENT(S): Rhone-Poulenc Rorer S.A., Fr.; Institut
Gustave Roussy; Centre National De La Recherche Scientifique
SOURCE: PCT Int. Appl., 74 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACCESSION COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9901157	A1	19990114	WO 1998-ER1399	19980630
WE: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GW,				
HU, ID, IL,				
IS, JP, KR, LC, LK, FR, LI, LV, MG, ME, MN, MX, NO, NZ,				
PL, RO,				
SG, SI, SE, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY,				
KG, KZ,				
MD, RU, TJ, TM				
RW, GE, GM, GL, IS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY,				
DE, DK, ES,				
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BL, CF, CG,				
CL,				
CM, GA, GN, ML, ME, NI, SN, TD, TG				
EE 2765241	A1	19981231	FR 1997-8232	19970630
FR 2765241	B1	20010504		
AU 9884446	A1	19990125	A1 1998-84446	19980630
EP 991425	A1	20000412	EP 1998-935066	19980630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				
PT, IE,				
SI, FI				
BR 9510372	A	20000905	BR 1998-10372	19980630
JP 2002507984	T2	20020312	JP 1999-506529	19980630
NO 9906541	A	20000217	NO 1999-6541	19991229
US 2002012914	A1	20020131	US 2000-446690	20000202
PRIORITY APPL. INFO:			FR 1997-8232	A 19970630
			US 1997-67487P	P 19971201
			WO 1998-ER1299	W 19980630

AB: Nucleic acids are introduced into cells of multicellular organisms
in vivo

by using elec. **pulses** of 1-600 V/cm. The method was
demonstrated using a no. of different tissues (normal and cancerous).
Effects of variation of voltage, **pulse** frequency, duration, etc.
on **transfection** were studied.

REFERENCE COUNT: 5 THERE ARE 5 CHILD
REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE
REFERENCE

110. ANSWER 6 OF 23 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 199958892 CAPLUS
DOCUMENT NUMBER: 130106020
TITLE: **Transfection** of muscle cells using

low-voltage electrical **pulses**
 INVENTOR(S) Bureau, Michel, Mit, Hans, Scherman, Daniel
 PATENT CLASSIFICATION Rhône-Poulenc Rorer S.A., Fr.; Institut
 Gustave
 Roussy; Centre National De La Recherche Scientifique
 SOURCE PC Int. Appl., 97 pp.
 CODEN PINXD2
 DOCUMENT TYPE Patent
 LANGUAGE French
 FAMILY ACC. NUM. COUN. 2
 PATENT INFORMATION

PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 99/01158 A1 1999/01/14 WO 1998/01400 1998/06/30
 W: AT, AU, BA, BB, BG, BR, CA, CN, CU, CZ, DE, GL, GW,
 HU, ID, IL
 IS, JP, KR, LC, LK, LR, LU, LV, MG, MK, MN, MX, NO, NZ,
 PL, RO,
 SG, SI, SK, SE, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY,
 KG, KZ,
 MD, RU, TJ, TM
 RW, GE, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BJ, CF, CG,
 CL,
 CM, GA, GN, HE, HR, NI, SN, TD, TG
 ER 2765242 A1 1998/12/31 ER 1997-8233 1997/06/30
 ER 2765242 B1 2000/05/04
 AU 9884447 A1 1999/01/25 AU 1998-84447 1998/06/30
 EP 990426 A1 2000/04/12 EP 1998-935067 1998/06/30
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE,
 PT, IT,
 SL, FI
 BR 9810369 A 2000/09/05 BR 1998-10269 1998/06/30
 JP 2002507985 T2 2002/03/12 JP 1999-50630 1998/06/30
 NO 9906542 A 2000/02/17 NO 1999-6542 1999/12/29
 PRIORITY APPL. INFO: ER 1997-8233 A 1997/06/30
 US 1997-67488P P 1997/12/01
 WO 1998-EP1400 W 1998/06/30

AB: Nucleic acids are introduced into cells of multicellular organisms
 in vivo
 by using elec. **pulses** of 1-800 V/cm. The method was
 demonstrated using a no. of different muscles. Effects of variation of
 voltage, **pulse** frequency, duration, etc. on **transfection**
 were studied.

REFERENCE COUNT: 5 THERE ARE 5 CITED
 REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE
 REFORMAT

110 ANSWER 5 OF 23 MEDLINE DUPLICATE 4
 ACCESSION NUMBER: 2000126825 MEDLINE
 DOCUMENT NUMBER: 20120825 PubMed ID: 10653986
 TITLE Circular YAC vectors containing short mammalian
 origin
 sequences are maintained under selection as HeLa
 episomes.
 AUTHOR Nielsen, LO; Cossons, NH; Zannis-Hadjopoulos, M.
 PRICE GB
 CORRESPOND. SOURCE: Department of Pathology, University of
 British Columbia,
 Vancouver; British Columbia V6T 1Z5, Canada
 SOURCE: JOURNAL OF CELLULAR BIOCHEMISTRY,
 2000, Jan; 76(4):674-85
 Journal code: 8205768 ISSN: 0730-2312
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; JOURNAL ARTICLE
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200003
 ENTRY DATE: Entered STM: 2000/02/20
 Last Updated on STM: 2000/02/20
 Entered Medline: 2000/03/09

AB: pYAC neo, a 15.8-kb plasmid, contains a bacterial origin, G418-
 resistance
 gene, and yeast ARS, CEN, and IEF elements. Three mammalian
 origins have
 been cloned into this circular vector. 343, a 448-bp chromosomal
 origin
 from a transcribed region of human **chromosome** 6q, X24, a 4.3-kb
 element containing the hamster DHFR origin of bidirectional
 replication
 (orbeta), and S3, a 1.1-kb human anti-circumplex purified
 autonomously
 replicating sequence. The resulting constructs have been
transfected into HeLa cells, and G418-resistant subcultures were
 isolated. The frequency of G418-resistant transformation was 1.7-8.7
 times
 higher with origin-containing YAC neo than with vector alone. After
 45
 generations under G418 selection, the presence of episomal versus
 integrated constructs was assessed by fluctuation assay and by PCR
 of
 supercoiled, circular, and linear genomic cellular DNAs separated on
 ethidium bromide-caesium chloride gradients. In stable G418-resistant
 subcultures **transfected** with vector alone or with linearized
 constructs, as well as in some subcultures **transfected** with
 circular origin-containing constructs, resistance was conferred by
 integration into the host genome. However, several examples were
 found of
 G418-resistant **transfectants** maintaining the Y343 and the
 YAC-S3 circular constructs in a strictly episomal state after long-term
 culture in selective medium, with 80-90% stability per cell division.
 The
 episomes were found to replicate semiconservatively in a
 bromodeoxyuridine
pulse-labeling assay for < -130 cell generations after
transfection. Furthermore, after < -172 cell generations rescued
 episomal DNA could be isolated intact and unarranged, and could
 be used
 to retransform bacteria. These versatile constructs, containing
 mammalian
 origins, have the capacity for further modification with human
 telomere or
 large putative centromere elements, in an effort to move towards
 construction of a human artificial **chromosome**.
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and his

(FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002)

FILE 'MEDLINE, BIOSIS, CAPUS' ENTERED AT 15:05:47 ON
 02 OCT 2002

11 482 S MICPOCELL MEDIATED CHROMOSOME
 TRANSFER

12 11852 S ILEC TROPICAT?
 13 2 S I1 AND I2
 14 2 DUP REM I3 (0 DUPLICATES REMOVED)
 15 173 S ILEC TROPICAT?
 16 26 S TRANSFECT AND ELECTRIC?
 17 2095 S TRANSFECT AND PULSE
 18 552069 S CHROMOSOME
 19 41 S I1 AND I8
 110 23 DUP REM I9-18 DUPLICATES REMOVED

<S I2 or I5 or I7

111 13745 I2 OR I5 OR I7

<S I1 and I1

112 2 I11 AND I1

<S I12 not I3

113 9 I12 NOT I3

<S I8 and I11

114 77518 AND 111

115 831822 MICELLE OR LIPID OR LIPOSOME

116 13114 AND 115

117 13114 AND 115

118 13114 AND 115

119 13114 AND 115

120 13114 AND 115

121 13114 AND 115

117 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
11 Compositions and methods for the treatment of diseases related to faulty cholesterol regulation
SO: PCT Int. Appl., 75 pp.
CODEN: PIXXD2

117 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
11 Detection and interpretation of mutations using animal cell hosts to express human genes present on a single copy of a human **chromosome**
SO: PCT Int. Appl., 149 pp.
CODEN: PIXXD2

117 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
11 Methods for binding an exogenous zinc finger protein to cellular chromatin
SO: PCT Int. Appl., 49 pp.
CODEN: PIXXD2

117 ANSWER 4 OF 9 MEDLINE DUPLICATE 1
11 A flow cytometry technique for measuring **chromosome**-mediated gene transfer
SO: CYTOMETRY, (2001 Jun 1) 44 (2) 100-5.
Journal code: 8102328, ISSN: 0196-4763.

117 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
11 FACS assisted methods for introducing individual **chromosomes** into cells
SO: PCT Int. Appl., 24 pp.
CODEN: PIXXD2

117 ANSWER 6 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
11 Conversion of normal beta-globin to sickle beta-globin by small fragment homologous replacement.
SO: Blood, (November 16, 2000) Vol. 96, No. 11 Part 2, pp. 379b.
print.
Meeting Info.: 42nd Annual Meeting of the American Society of Hematology
San Francisco, California, USA December 01-05, 2000 American Society of Hematology
ISSN: 0006-4971.

117 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS
11 methods for prep mammalian artificial **chromosomes** (MACs)
SO: PCT Int. Appl., 248 pp.
CODEN: PIXXD2

117 ANSWER 8 OF 9 MEDLINE
11 A system for generalized mutagenesis of Haemophilus ducreyi
SO: INFECTION AND IMMUNITY, (1995 Aug) 63 (8) 2976-82
Journal code: 0246127, ISSN: 0019-9567

117 ANSWER 9 OF 9 MEDLINE DUPLICATE 2
11 Molecular complementation of a collagen mutation in mammalian cells using yeast artificial **chromosomes**

SO: EMBO JOURNAL, (1992 Feb) 11 (2) 417-22
Journal code: 8208664, ISSN: 0261-4189

118 9877512

117 ANSWER 9 OF 9 MEDLINE DUPLICATE 2
ACCESSION NUMBER: 92164627 MEDLINE
DOCUMENT NUMBER: 92164627 PubMed ID: 1517326
TITLE: Molecular complementation of a collagen mutation in mammalian cells using yeast artificial **chromosomes**

AUTHOR: Strauss W M, Jaenisch R
CORPORATE SOURCE: Whitehead Institute for Biomedical Research, Massachusetts
Institute of Technology, Cambridge 02142
CONTRACT NUMBER: 5 F32 GM13756-02 (NIHMS)
5 R35 CA4339-05 (NCI)
HG000198-01 (NIHRI)
SOURCE: EMBO JOURNAL, (1992 Feb) 11 (2) 417-22.
Journal code: 8208664, ISSN: 0261-4189.
PUB. COUNTRY: ENGLAND, United Kingdom
DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199203
ENTRY DATE: Entered SIN: 19920417
Fast Updated on SIN: 19980206
Entered Medline: 19920314

AB: The cloning of large contiguous segments of mammalian DNA in Saccharomyces cerevisiae has become possible with the advent of Yeast Artificial **Chromosomes** (YAC's). We are interested in extending the technique of genetic complementation analysis to the molecular level through the introduction of YAC's into mammalian cells and the mammalian germline. We report the successful introduction of homogeneous DNA derived from a 150 kbp YAC spanning the murine Col1a1 locus into murine fibroblasts carrying a mutation at this locus. The YAC DNA was fractionated by pulse field electrophoresis, condensed with polyamines, and introduced into mutant fibroblasts via DNA-lipid micelles. The DNA was integrated as a stable intact unit in 10% of the **transfected** clones conferring collagen RNA expression to the mutant cells.

117 ANSWER 8 OF 9 MEDLINE
ACCESSION NUMBER: 95347810 MEDLINE
DOCUMENT NUMBER: 95347810 PubMed ID: 7622219
TITLE: A system for generalized mutagenesis of Haemophilus ducreyi.
AUTHOR: Stevens M K, Cope L D, Radolf J D, Hansen F J
CORPORATE SOURCE: Department of Microbiology, University of Texas
Southwestern Medical Center, Dallas 75235-9048, USA.
CONTRACT NUMBER: AI2011 (NIAMD)
CA09082-19 (NCI)
132-A08848 (NIAMD)
SOURCE: INFECTION AND IMMUNITY, (1995 Aug) 63 (8) 2976-82
Journal code: 0246127, ISSN: 0019-9567.

PUB. COUNTRY: United States
DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199508
ENTRY DATE: Entered SIN: 19950911
Fast Updated on SIN: 19990129
Entered Medline: 19950825

AB: The lack of a generalized mutagenesis system for Haemophilus ducreyi has hampered efforts to identify virulence factors expressed by this

sexually transmitted pathogen. To address this issue, the transposable element **Tn1545-delta 3**, which encodes resistance to kanamycin, was evaluated for

its ability to insert randomly into the *H. ducreyi* **chromosome** and produce stable, isogenic mutants. **Electroporation** of *H. ducreyi* with a microgram of plasmid pMSE carrying **Tn1545-delta 3** resulted

in the production of 10(4) kanamycin-resistant transformants. Southern

blot analysis of a number of these transformants indicated that insertion

of the transposon into the **chromosome** occurred at a number of different sites. This pMSE-based transposon-delivery system was used to

produce an *H. ducreyi* mutant that expressed an altered lipooligosaccharide (LOS). Passage of this mutant in vitro in the presence or absence of kanamycin did not affect the stability of the transposon insertion. To confirm that the observed mutant phenotype was the result of the transposon insertion, a chromosomal fragment containing **Tn1545-delta 3** was

cloned from this *H. ducreyi* LOS mutant. **Electroporation** of the wild-type *H. ducreyi* strain with this DNA fragment yielded numerous kanamycin-resistant transformants, the majority of which had the same

altered LOS phenotype as the original mutant. Southern blot analysis confirmed the occurrence of proper allelic exchange in the LOS-deficient

transformants obtained in this back cross experiment. The ability of **Tn1545-delta 3** to produce insertion mutations in *H. ducreyi* should facilitate genetic analysis of this pathogen.

117 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 199718636 CAPLUS

DOCUMENT NUMBER: 28 19355

TITLE: methods for prep. mammalian artificial

chromosomes (MACs)

INVENTOR(S): Hadlaczy, Gyula; Szalay, Aladar A.

PATENT ASSIGNEE(S): Hadlaczy, Gyula; Hung, Szalay, Aladar A.; American

Gene Therapy, Inc., Biological Research Center of the Hungarian Academy of Sciences; Torma Endre

University SOURCE: PCT Int. Appl., 243 pp

CODE: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

PATENT INFORMATION

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9740783	A2	19971020	WO 1997185911	19970410
W	AL, AM, AT, AU, AZ, BA, BB, BG, BF, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GR, GU, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SG, SK, SL, SM, SR, TH, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, EW: AT, BE, BF, BG, CH, CG, CH, CL, CM, DE, DK, ES, FI, FR, GA, GB, GR, HU, IL, IT, MC, MI, MR, NL, NL, PL, SE, SN, TD, TG			
PRIORITY APPL. INFO: US 1996-629822 19960410				
US 1996-682080 19960715				
US 1996-695191 19960807				

AB: Methods for prep. cell lines that contain artificial **chromosomes**; methods for prep. of artificial **chromosomes**; methods for purifi. of artificial **chromosomes**; methods for targeted insertion of heterologous DNA into artificial **chromosomes**; and methods for delivery of the **chromosomes** to selected cells and

tissues are provided. Also provided are cell lines for use in the methods; and cell lines and **chromosomes** produced by the methods. In particular, satellite artificial **chromosomes** [SATACs] that, except for inserted heterologous DNA, are substantially composed of heterochromatin, are provided. Methods for use of the artificial **chromosomes**, including for gene therapy, prodn. of gene products and prodn. of transgenic plants and animals are also provided.

117 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000401963 CAPLUS

DOCUMENT NUMBER: 33 19076

TITLE: FACS assisted methods for introducing individual

chromosomes into cells

INVENTOR(S): Nolan, Edward M.; Rabassay, Dietmar P.; Hofmann

Gunter A.

PATENT ASSIGNEE(S): Genentech, Inc., USA

PCT Int. Appl., 24 pp.

SOURCE: CODE: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000034436	A2	20000615	WO 1999-US28715	
19991203				
WO 2000034436	A3	20010920		
W	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GR, GU, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, ER, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TH, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, EG, KZ, MD, RU, TJ, TM, RW: CH, GM, KE, ES, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, EP, GB, GR, IL, IT, LU, MC, NL, PT, SE, BF, BJ, CE, CG, CL, CM, GA, GN, GW, ML, MF, NE, SN, TD, TG			
AU 2000019330	A1	20000626	AU 2000-19330	19991203
US 2002019052	A1	20020214	US 2001-974882	20011010
PRIORITY APPL. INFO: US 1998-110951P 19981204				
WO 1999-US28715 W 19991203				
US 1999-453610 B1 19991204				

AB: The present invention provides methods and app. for the delivery of at

least one **chromosome** into a cell. Invention methods and app. employ FACS or MACS technol. for rapidly processing cells and for confirming the introduction of **chromosome(s)** into a cell. The introduction of the **chromosome(s)** into the cell is mediated by one or more of a laser, a linear accelerator or elec. induced fusion of a cell and encapsulated **chromosome(s)**. Invention methods provide for the rapid and reliable processing assoc. with FACS and MACS technol.

to process thousands of cells a minute, thereby enabling large scale gene transfer.

117 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002276207 CAPLUS

DOCUMENT NUMBER: 136 289911

TITLE: Detection and interpretation of mutations using animal

cell host to express human genes present on a single copy of a human **chromosome**

INVENTOR(S): Beaudet, Arthur; Bodamer, Olaf; Killary, Ann; Lowell,

Mercedes

PATENT ASSIGNEE: Board of Regents, the University of Texas
System, USA
SOURCE: PCT Int. Appl., 149 pp
CODEN: PIVXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY APPLICATIONS:
PATENT INFORMATION:

PATENT NO.	KIND/DATE	APPLICATION NO./DATE
WO 2002/029107	A2	WO 2001/4820965
20011002		
W, AL, AU, AT, AU, AZ, BA, BB, BG, BR, BY, BZ,		
CA, CH, CN,		
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,		
GL, GR,		
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,		
LR,		
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,		
NZ, PH, PL,		
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,		
UG,		
UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, BZ, MD, RU, TJ,		
TM,		
RW, GR, GM, KE, US, MW, MZ, SD, SE, SZ, TZ, UG, ZW, AL,		
BE, CH, CY,		
DE, DK, ES, FI, FR, GB, GR, IL, IT, LU, MC, NL, PT, SE, TR,		
BE,		
BL, CE, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,		
IG,		

US 2002/07067 A1 20020926 US 2001-969861 20011002
PRIORITY APPL. INFO: US 2000-2,7471P P 20001002

AB: The present invention relates to a method for detection and interpretation of loss-of-function or gain-of-function mutations for test genes of interest. The genes of interest include those associated with inherited genetic disorders. The method involves testing for gene function by transferring single copies of individual human **chromosomes** into a suitable host cell. Human cells are obtained from peripheral blood. Transfer is preferably by microcell-mediated **chromosome** transfer. Transfer is screened for anal. of expression of a marker gene closely linked to the gene of interest. Guidelines for the selection of host cells and marker genes that can be used to detect transfer are described. The preferred markers are cell surface proteins such as

ICAM-1 that can be easily assayed or used for fluorescence activated cell sorting. The method is demonstrated by detection of a mutation in the human LDL receptor gene on **chromosome** 19 using CHO cells as a host.

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FILE MEDLINE ABOSIS, CAPLUS ENTERED AT 15:05:47 ON 02 OCT 2002

11 482 S MICROC CELL MEDIATED CHROMOSOME TRANSFER

12 1 852 S ELECTROPORATION

13 2 S 11 AND 12

14 2 DUP REM 13 (6 DUPLICATES REMOVED)

15 73 S ELECTROTRANSFECT

16 26 S TRANSFECT AND ELECTRIC

17 2095 S TRANSFECT AND PULSE

18 52669 S CHROMOSOME

19 41 S 17 AND 18

110 23 DUP REM 19 (18 DUPLICATES REMOVED)

111 1774 S 12 OR 15 OR 17

112 2 S 11 AND 11

113 9 S 112 NOT 12

114 775 S 18 AND 111

115 831822 S MICROC CELL OR LIPID OR LIPOSOME

116 1 S 114 AND 115

117 9 DUP REM 116 (4 DUPLICATES REMOVED)

118 825 S 115

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE 1 AND OPERATOR ASSUMED T358151

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE 1 AND OPERATOR ASSUMED T368152

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH FIELD CODE 1 AND OPERATOR ASSUMED T378153

118 825 S 115

119 1192812 OR 15

120 477115 S 119

121 1192812 OR 15

122 477115 S 119

123 1192812 OR 15

124 1192812 OR 15

125 1192812 OR 15

126 1192812 OR 15

127 1192812 OR 15

128 1192812 OR 15

129 1192812 OR 15

130 1192812 OR 15

131 1192812 OR 15

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308 1192812 OR 15

309 1192812 OR 15

310 1192812 OR 15

311 1192812 OR 15

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313 1192812 OR 15

314 1192812 OR 15

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317 1192812 OR 15

318 1192812 OR 15

319 1192812 OR 15

320 1192812 OR 15

321 1192812 OR 15

322

P
Publisher: Int. Crops Res. Inst. Semi-Arid Trop., Patancheru, India
CODEN: 59VJAM

124 ANSWER 165 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Membrane electroporation: toward a molecular mechanism
SO: *Electro-Magn. Biol. Med. Rev. Res. Pap. World Congr.*, 1st (1993), 109-11
Publisher: San Francisco Press
CODEN: 604WAS

124 ANSWER 166 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Transformation of plant protoplasts with tobacco mosaic virus RNA by using
electroporation, PEG and cationic **liposome**-mediated methods
SO: *Shengwu Huaxue Yu Shengwu Wuli Xuebao* (1994), 26(1), 7-13
CODEN: SHWPAU; ISSN: 0582-9879

124 ANSWER 167 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Gene transfer to lentil protoplasts by lipofection and electroporation
SO: *Journal of Liposome Research* (1993), 3(2), 707-16
CODEN: JLRLE7; ISSN: 0898-2104

124 ANSWER 168 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Artificial ribozymes
SO: *Biochemical Education* (1993), 21(3), 139-41
CODEN: BIEDDX; ISSN: 0307-4412

124 ANSWER 169 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Expression of microbial genes in plants
SO: *Microb. Gene Technol., Proc. Natl. Symp.* (1991), Meeting Date 1990, 173-9
Editor(s): Polasa, H. Publisher: South Asian Publishers, New Delhi, India
CODEN: 59JLAF

124 ANSWER 170 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Effects of electroporation conditions on transdermal delivery
SO: *Proc. Int. Symp. Controlled Release Bioact. Mater.*, 20th (1993), 95-6
Editor(s): Roseman, Theodore J.; Peppas, Nicholas A.; Gabelnick, Henry J.
Publisher: Controlled Release Soc., Deerfield, Ill.
CODEN: 59LOAL

124 ANSWER 171 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Plant genetic transformation
SO: *Plant Biotechnol.* (1992), 151-82. Editor(s): Fowler, Michael W.; Warren, Granar S.; Moo-Young, Murray. Publisher: Pergamon, Oxford, U.K.
CODEN: 58BXAP

124 ANSWER 172 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Exact solution of a stochastic model of electroporation
SO: *Charge Field Fil. Biosyst.*, 3, [Int. Symp.], 3rd (1992), Meeting Date 1991, 271-84. Editor(s): Allen, Milton J. Publisher: Birkhauser, Boston, Mass.
CODEN: 57VVAV

124 ANSWER 173 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Effect of surface charges on the **electroporation** process in **lipid** bilayers
SO: *Progress in Colloid & Polymer Science* (1991), 84, Trends Colloid Interface Sci., 189-9.
CODEN: PCPSD7; ISSN: 0340-255X

124 ANSWER 174 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Introduction of DNA and proteins into cells
SO: *Saishin Igaku* (1991), 46(Suppl.), 857-68
CODEN: SAIGAK; ISSN: 0370-8241

124 ANSWER 175 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Electroporation: a unified, quantitative theory of reversible electrical breakdown and mechanical rupture in artificial planar bilayer membranes
SO: *Bioelectrochem. Bioenerg.* (1991), 25(2), 163-82
CODEN: BIBE BP; ISSN: 0302-4598

124 ANSWER 176 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: **Electroporation** of **lipid** vesicles by irmer electric fields
SO: *Charge Field Fil. Biosyst.*, 2, [Proc. Int. Symp.] (1989), 233-9
Editor(s): Allen, Milton J., Cleary, Stephen L.; Hawkridge, Fred M.
Publisher: Plenum, New York, N.Y.
CODEN: 56VZAF

124 ANSWER 177 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Establishment of conditions for the transformation of nonaxenic *Dictyostelium* strains
SO: *Dev. Genet. (N. Y.)* (1990), 11(5-6), 391-5
CODEN: DGNIDW; ISSN: 0192-253X

124 ANSWER 178 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Methods for introducing DNA into mammalian cells
SO: *Methods Enzymol.* (1990), 185(Gene Expression Technol.), 527-37
CODEN: MENZAU; ISSN: 0076-6879

124 ANSWER 179 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Introduction of foreign DNA into walled plant cells via liposomes injected into the vacuole: a preliminary study
SO: *Physiol. Plant.* (1990), 79(1), 184-9
CODEN: PHPLAE; ISSN: 0031-9317

124 ANSWER 180 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Plant transformation by microinjection techniques
SO: *Physiol. Plant.* (1990), 79(1), 213-17
CODEN: PHPLAE; ISSN: 0031-9317

124 ANSWER 181 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: The current-voltage relation of an aqueous pore in a lipid bilayer membrane
SO: *Biochim. Biophys. Acta* (1990), 1025(1), 10-14
CODEN: BBACAQ; ISSN: 0006-3002

124 ANSWER 182 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Current topics on gene transfer
SO: *Seisagaku* (1988), 60(2), 1341-6
CODEN: SEIKAQ; ISSN: 0037-1017

124 ANSWER 183 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: New methods of transfection of mammalian cells (a minireview)
SO: *Mol. Biol. (Moscow)* (1988), 22(6), 1445-50
CODEN: MOBIIO; ISSN: 0026-8984

124 ANSWER 184 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Gene transfection and lymphocyte immortalization: a new approach to human monoclonal antibody production
SO: *Adv. Drug Delivery Rev.* (1988), 2(2), 207-28
CODEN: ADDEFP

ed tr so 140-159

124 ANSWER 140 OF 184 CAPLUS COPYRIGHT 2002 ACS
H: Dynamics of **Electroporation** of Synthetic **Liposomes** Studied Using a Pore-Mediated Reaction, Ag⁺ + Br⁻ → AgBr
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CODEN: JPCBKE; ISSN: 1089-5647

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CODEN: TACHD5, ISSN: 0743-7463

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CODEN: ACSMCS, ISSN: 0097-6156

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CODEN: JBCHAX, ISSN: 0021-9258

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CODEN: BIMEF9, ISSN: 0233-4755

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CODEN: ANBICA, ISSN: 0003-2697

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CODEN: PSTU18; ISSN: 1461-5747

124 ANSWER 124 OF 184 CAPLUS COPYRIGHT 2002 ACS
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CODEN: CMBLEU; ISSN: 1423-8153

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SO JOURNAL OF IMMUNOLOGICAL METHODS, (1998 Feb) 211 (1-2) 79-86
Journal code: 1305440, ISSN: 0022-1759

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SO BIOPHYSICAL JOURNAL, (1998 Feb) 74 (2 Pt 1) 843-56
Journal code: 0370626, ISSN: 0006-3495

124 ANSWER 34 OF 184 MEDLINE

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SO BIOCHEMICAL BIOPHYSICAL ACTA, (1998 Mar) 213 69 (2) 204-12
Journal code: 0217517, ISSN: 0006-3002

124 ANSWER 35 OF 184 MEDLINE

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Journal code: 9606070, ISSN: 1084-2764

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Journal code: 7613461, ISSN: 0364-3190

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Journal code: 9517472, ISSN: 1023-6597

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SO CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS, (1997) 14 (4) 455-83 Ref: 206
Journal code: 8511159, ISSN: 0743-4865

124 ANSWER 39 OF 184 MEDLINE

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Administration transdermique de medicaments par electroporation
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Journal code: 7608462, ISSN: 0377-8231

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membranes in

electrical injuries

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Journal code: 7506858, ISSN: 0077-8923

124 ANSWER 3 OF 184 MEDLINE

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Journal code: 7506858, ISSN: 0077-8923

124 ANSWER 4 OF 184 MEDLINE

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Journal code: 7506858, ISSN: 0077-8923

124 ANSWER 5 OF 184 MEDLINE

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SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Oct) 704 883 195-210
Journal code: 7506858, ISSN: 0077-8923

124 ANSWER 6 OF 184 MEDLINE

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SO FARADAY DISCUSSIONS, (1998) (111) 111-25; discussion 137-57
Journal code: 9212301, ISSN: 1359-6640

124 ANSWER 7 OF 184 MEDLINE

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SO BLOOD CELLS, MOLECULES, AND DISEASES, (1999 Oct-Dec) 25 (5-6) 299-304
Journal code: 9509932, ISSN: 1079-9796

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SO COVARTIS FOUNDATION SYMPOSIUM, (1999) 226 20-34; discussion 34-6 Ref: 70
Journal code: 9807767

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SO EXPERIMENTAL CELL RESEARCH, (1999 Dec) 151 (2) 541-50
Journal code: 0373226, ISSN: 0014-4827

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SO TIBS LETTERS, (1999 Nov) 26 (1-2) 155-8
Journal code: 0155157, ISSN: 0014-5793

124 ANSWER 11 OF 184 MEDLINE

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SO BIOCHEMICAL JOURNAL, (1999 Sep) 342 (Pt 2) 281-6
Journal code: 2984726R, ISSN: 0264-6021

124 ANSWER 12 OF 184 MEDLINE

11 Expression and functional characterization of the cardiac muscle

ryanodine receptor/Ca²⁺ release channel in Chinese hamster ovary cells
SO: BIOPHYSICAL JOURNAL, (1999 Aug) 77 (2) 808-16
Journal code: 0370626, ISSN: 0006-3495

124 ANSWER 13 OF 184 MEDLINE
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SO: BIOELECTROCHEMISTRY AND BIOENERGETICS, (1999 May) 48 (2) 452-61
Journal code: 9388877, ISSN: 0302-4598

124 ANSWER 14 OF 184 MEDLINE
TI: The effects of gramicidin on **electroporation** of lipid bilayers
SO: BIOPHYSICAL JOURNAL, (1999 Jun) 76 (6) 3150-7
Journal code: 0370626, ISSN: 0006-3495

124 ANSWER 15 OF 184 MEDLINE
TI: Electric field-induced transient birefringence and light scattering of synthetic liposomes
SO: BIOCHEMICAL BIOPHYSICAL ACTA, (1999 May 12) 1418 (2) 295-306
Journal code: 0217513, ISSN: 0006-3002

124 ANSWER 16 OF 184 MEDLINE
TI: Time-dependent ultrastructural changes to porcine stratum corneum following an electric pulse
SO: BIOPHYSICAL JOURNAL, (1999 May) 76 (5) 2824-32
Journal code: 0370626, ISSN: 0006-3495

124 ANSWER 17 OF 184 MEDLINE
TI: Kinetics of sealing for transient electropores in isolated mammalian skeletal muscle cells
SO: BIOELECTROCHEMISTRY, (1999) 20 (3) 194-201
Journal code: 8008281, ISSN: 0197-8462

124 ANSWER 18 OF 184 MEDLINE
TI: Transfection of myelomonocytic cell lines: cellular response to a lipid-based reagent and **electroporation**
SO: ANALYTICAL BIOCHEMISTRY, (1999 Apr 10) 269 (1) 219-21
Journal code: 0370535, ISSN: 0003-2697

124 ANSWER 19 OF 184 MEDLINE
TI: Chemical transformations in individual ultrasmall biomimetic containers
SO: SCIENCE, (1999 Mar 19) 285 (5409) 1892-5
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124 ANSWER 178 OF 184 CAPLUS COPYRIGHT 2002 ACS
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DOCUMENT TYPE: Journal, General Review
LANGUAGE: English

AB: A review with 48 refs. DNA transfer methods discussed include calcium phosphate copptn., DEAE-Dextran-mediated transfection, elec-

field-mediated transfection (**electroporation**), polybrene-mediated transfection, **lipid**-mediated transfection, lipofection, red blood cell-mediated transfection, DNA microinjection, the laser method, and microprojectile-mediated gene transfer.

124 ANSWER 176 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 19991225107 CAPLUS
DOCUMENT NUMBER: 114225107

TITLE: **Electroporation of lipid vesicles** by inner electric fields

AUTHOR(S): Chernadzhiev, Yu. A.; Pastushenko, A. I.
CORPORATE SOURCE: AN. Frankin Inst. Electrochem., Moscow, USSR

SOURCE: Charge Field Eff. Biosyst.-2, [Proc. Int. Symp.] (1989), 133-9. Editor(s): Allen, Milton Joel, Cleary, Stephen L., Hawking, Fred M., Plenum, New York, N. Y.

CODE: S9AZAF
DOCUMENT TYPE: Conference

LANGUAGE: English

AB: **Electroporation of lipid** membranes by outer elec-

field has been studied in detail in plane bilayers bordering on micelles

Vesicle systems require other methods of anal., since they lack the tension-providing micelles. Of significance in this case is also the drop

of the elec. potential, caused by the increase in the pore size, esp. in studies of the breakdown by the membrane potential. This paper discusses these problems.

124 ANSWER 157 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995849424 CAPLUS
DOCUMENT NUMBER: 123250642

TITLE: Apparatus and method for efficient incorporation of molecules into cells

INVENTOR(S): Korenstein, Rafi; Rosenberg, Yosef; Zan-Bar, Israel

PATENT ASSIGNEE(S): Ramot-University Authority for Applied Research and

Industrial Development Ltd., Israel
SOURCE: PCT Int. Appl., 44 pp.

CODE: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 95/0211	A1	19950831	WO 1995-US2309	19950224
W:	AM, AU, BB, BG, BR, BY, CA, CN, CZ, DE, FI, GL, HU, JP, KG, KP,			
	KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL,			
	RO, RU, SD,			
	SI, SK, TJ, TT, UA, UZ, VN			
RW:	KE, MW, SD, SZ, UG, AT, BE, CH, DE, ES, FR, GB,			
GR, IL, IT,				
	LU, MC, NL, PT, SE, BE, BJ, CF, CG, CL, CM, GA, GN, ML,			
MR, NE,				

SN, TD, TG
A1 9519307 A1 19950911 A1 199519307 19950224
EP 750663 A1 19970102 EP 1995-011913 19950224
R: DE, ES, FR, GB, IT
PRIORITY APPL. INFO.: IT 1994-108775 19940225
WO 1995-US2309 19950224

AB: A method and app. for incorporating macromols. into membrane vesicles.

cells or tissue by electroporation is presented. The method involves the

steps of: (1) applying a train of low unipolar or alternating voltage pulses to the macromols. and cells; (2) increasing the concn. of the macromols. at the surface of the cells; and (3) allowing the macromols. to

penetrate into the cytosol of the cells through the destabilized cell membrane. The app. includes a support plate having apertures for allowing

electrodes to pass through it. Support tubes located within the

apertures surround the electrodes. An elec. current-supplying mechanism connected to the electrode supplies sufficient elec. current to a cell for facilitating the introduction of macromols. into the cell.

I24 ANSWER 143 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998139056 CAPLUS
TITLE: Detection of **electroporation** of

liposomes by means of a fast electron transfer reaction.

AUTHOR(S): Correa, N.; Mariano, Schell, J. Z. A.
CORPORATE SOURCE: Center Colloidal and Interfacial Dynamics, University of Texas, Arlington, TX, 76019-0065, USA
SOURCE: Book of Abstracts, 215th ACS National Meeting, Dallas, March 29-April 2 (1998), COLL-168, American Chemical Society, Washington, D.C.
CODEN: 65Q1AA

DOCUMENT TYPE: Conference Meeting Abstract
LANGUAGE: English

AB **Electroporation** is a reversible transient pore formation in surfactant bilayers such as cell membranes, vesicles or **liposomes**, induced by a high-voltage elec. pulse applied to the suspension. The applied field elongates the time av. spherical cells and reorients the induced dipoles parallel to E. The evolution of the structural anisotropy can be monitored through the birefringence of the system. In addition, above threshold values of the field strength and pulse length, pore formation may occur in the polar regions of the ellipsoidal shells. To detect if and when pore formation occurs in the course of events, we used the fast electron transfer reaction $\text{Ir(IV)} + \text{Fe(II)} \rightarrow \text{Ir(III)} + \text{Fe(III)}$ as a probe - by originally entrapping Fe(II) inside and placing Ir(IV) outside the liposomes. The reaction can only occur when pores are formed.

I24 ANSWER 146 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 19981329679 CAPLUS
DOCUMENT NUMBER: 129118293
TITLE: Improving the effectiveness of non-viral gene transfer methods

AUTHOR(S): Hui, Sei Wen; Li, Lin Hong; Ross, Patrick; Stoicheva, Nataliia; Zhao, Yali
CORPORATE SOURCE: Membrane Biophysics Laboratory, Roswell Park Cancer Institute, Buffalo, NY, 14263, USA
SOURCE: Cellular & Molecular Biology Letters (1997), 2(Suppl.), 1, Biophysics of Membrane Transport, Pt. 1, 97-110
CODEN: CMBLEF; ISSN: 1425-8153

PUBLISHER: University of Wrocław, Institute of Biochemistry, Dep. of Genetic Biochemistry

DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

AB A review, with 15 refs., and discussion on the use of cationic **lipids** and **electroporation** in non-viral gene transfer methods for the purpose of improving gene delivery.

I24 ANSWER 132 OF 184 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999144726 CAPLUS
DOCUMENT NUMBER: 130334880
TITLE: Optimization of Electroporation for Biochemical Experiments in Live Cells

AUTHOR(S): Meldrum, Rosalind A.; Bowl, Michael; Ong, Swee Bee;

Richardson, Simon
CORPORATE SOURCE: School of Biochemistry, University of Birmingham, Birmingham, B15 2TT, UK

SOURCE: Biochemical and Biophysical Research Communications

(1999), 256(1), 235-239
CODEN: BBRCAX; ISSN: 0006-291X

PUBLISHER: Academic Press
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To introduce into cells small mols., which do not permeate the cell membrane naturally, electroporation is the fastest and most efficient technique. Although it is not completely benign, the speed at which a full population of cells can be permeated gives it a strong advantage over

all other cell permeation techniques. Here we describe the potential damaging effects of electroporation and how to derive conditions which avoid these and assure its use for biochem. expts. in live cells. (c) 1999 Academic Press.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

I24 ANSWER 93 OF 184 MEDLINE
ACCESSION NUMBER: 89042117 MEDLINE
DOCUMENT NUMBER: 89042117 PubMed ID: 3186704

TITLE: Gene transfer from targeted **liposomes** to specific lymphoid cells by **electroporation**.

AUTHOR: Machy, P.; Lewis, E.; McMillan, L.; Jonak, Z. I.
CORPORATE SOURCE: Department of Cell Biology, Smith Kline & French Laboratories, King of Prussia, PA 19406-2799.

SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1988 Nov) 85 (21) 8027-31.

Journal code: 7505876, ISSN: 0027-8424.

PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198812
ENTRY DATE: Entered STN: 19900308
Last Updated on STN: 19900308
Entered Medline: 19881209

AB Large unilamellar **liposomes**, coated with protein A and encapsulating the gene that confers resistance to mycophenolic acid, were used as a model system to demonstrate gene transfer into specific lymphoid cells. Protein A, which selectively recognizes mouse IgG2a antibodies, was coupled to **liposomes** to target them specifically to defined cell types coated with IgG2a antibody. Protein A-coated **liposomes** bound human B lymphoblastoid cells preincubated with a mouse IgG2a anti-HL A monoclonal antibody but failed to adhere to cells challenged with an irrelevant (anti-H-2) antibody of the same isotype or to cells incubated in the absence of antibody. Transfection of target cells

to protein A-coated **liposomes** was achieved by **electroporation**. This step was essential since only **electroporated** cells survived in a selective medium containing mycophenolic acid. Transfection efficiency with **electroporation** and targeted **liposomes** was as efficient as conventional procedures that used unencapsulated plasmids free in solution but, in the latter case, cell selectivity is not possible. This technique provides a methodology for introducing defined biological macromolecules into specific cell types.

I24 ANSWER 37 OF 154 MEDLINE
ACCESSION NUMBER: 91199726 MEDLINE
DOCUMENT NUMBER: 91199726 PubMed ID: 2086036
TITLE: Gene transfer methods for plants and cell cultures.
AUTHOR: Potrykus I.
CORPORATE SOURCE: Institute for Plant Sciences, Swiss Federal
Institute of

Technology (ETH-Zentrum, Zurich
SOURCE: CIBA FOUNDATION SYMPOSIUM, (1996) 154
198-208; discussion

25-12. Ref: 33.
Journal code: 0356636 ISSN: 0300-5208.

PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW) FULLTEXT

LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199105
ENTRY DATE: Entered STN: 19910607
Last Updated on STN: 19910607
Entered Medline: 19910521

AB Agrobacterium-mediated gene transfer provides a routine and efficient gene transfer system for a variety of plant species. As this biological vector does not, however, function with important plant species, numerous alternative approaches have been studied. Of those, direct gene transfer into protoplasts, microinjection and biolistics have been demonstrated to

be effective. Others, for example, viral vectors, agroinfection, liposome injection and electroporation may have special merits, although transgenic plants have not been produced by these techniques, et.

From methods based on pollen transformation, the pollen tube pathway, pollen maturation, incubation of dry seeds, incubation of tissues, liposome fusion with tissues, microinjection, laser treatment and electroporation of tissues no proof of integrative transformation is available, so far, and it is difficult to envisage how these approaches

will ever produce transgenic cells and plants. We discuss (a) why Agrobacterium does not function with all plants, (b) what merits and disadvantages we see for the effective methods, (c) what possibilities we foresee for some of the other approaches, and (d) why we do not expect the remaining ones to be successful.

I24 ANSWER 53 OF 184 MEDLINE
ACCESSION NUMBER: 92089132 MEDLINE
DOCUMENT NUMBER: 92089132 PubMed ID: 1661151
TITLE: Increased binding of liposomes to cells by electric treatment.
AUTHOR: Chemmornirakul V; Papahadjopoulos D; Tsong T Y
CORPORATE SOURCE: Department of Biochemistry, University of Minnesota, St. Paul
CONTRACT NUMBER: CA 35340 (NCI)
GM 28117 (NIGMS)
SOURCE: BIOCHEMICAL BIOPHYSICAL ACTA, (1991) Nov
18:1070-1077

Journal code: 0217513 ISSN: 0006-3002
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199201
ENTRY DATE: Entered STN: 19920216
Last Updated on STN: 19920205
Entered Medline: 19920129

AB The influence of electric field treatments on the interaction of large

amphipathic vesicles (liposomes) with animal cells was monitored by the fluorescence assay based on the use of the liposomes loaded by a dye 1-hydroxypyrene-1,3,6-trisulfonic acid (HPTS). It was

shown that application of a short electric pulse (100 microseconds of 3-4

kV/cm) to the suspension of cells in presence of vesicles resulted in significant (more than 2 times) increase of the fluorescence

associated with cells. The pH-sensitivity of the excitation spectrum of the dye and

its interaction with the quencher were used to determine the nature of the

phenomenon as the increase of the liposome binding onto the cell surface but not the consequence of a promotion of liposome uptake into the cells by endocytosis. The higher affinity for the liposome caused by the electric field has a lifetime of several minutes. The possible relation of the effect described to the electroporation of cell membranes and to macroscopic changes in membrane structure is discussed.

I24 ANSWER 77 OF 184 MEDLINE
ACCESSION NUMBER: 93365553 MEDLINE
DOCUMENT NUMBER: 93365553 PubMed ID: 8359218
TITLE: Induced endocytosis in human fibroblasts by electrical fields.

AUTHOR: Glogauer M; Lee W; McAlloch C A
CORPORATE SOURCE: Faculty of Dentistry, University of Toronto, Ontario,
Canada.

SOURCE: EXPERIMENTAL CELL RESEARCH, (1993 Sep)
208 (1):232-40.
Journal code: 0373226 ISSN: 0014-4827.

PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199309
ENTRY DATE: Entered STN: 19931015
Last Updated on STN: 19931015
Entered Medline: 19930930

AB Electroporation creates transient pores through which exogenous molecules can gain access to the cell cytoplasm. However, the electrical events associated with this phenomenon may perturb membrane-dependent

events such as endocytosis. To measure the effect of electroporation on endocytosis, suspensions of human gingival fibroblasts were subjected to 5-ms electrical discharges, allowed to recover for variable periods of time, incubated with fluorescent probes,

and then analyzed by flow cytometry. Incubation of electroporated fibroblasts with FITC-conjugated bovine serum albumin (BSA) to label

moieties on cell membranes nonspecifically demonstrated a time-dependent

increase of internalized probe for up to 90 min after electroporation. Pretreatment incubation of cells with cytochalasin D abrogated the increased internalization of FITC-BSA due to

electroporation. Compared to controls, fluorescence signals due to internalization of surface glycoproteins with FITC-concanavalin A were 43%

higher after electroporation and treatment with endoglycosidase F or H to reduce probe associated with surface membrane. Confocal microscopy confirmed intracellular labeling and reduction of membrane-associated probe by the enzyme. Assessment of nonspecific

FITC-Con A labeling of cells by pretreatment with alpha-methyl D-mannoside showed that labeling was largely (92%) specific. Compared to controls,

electroporation induced a 60% increase of internalization of lucifer yellow, a fluid-phase endocytosis marker. Dual fluorescence

labeling of membrane phospholipids by FITC- and TRITC-DHPE demonstrated an increased acidification after **electroporation** that was time dependent, indicating that **electroporation** induced more rapid entry of membrane **lipid** into endosomal compartments. These data demonstrate that the electrical fields used in **electroporation** of fibroblasts cause an actin-dependent increase in the internalization of all membrane components examined and an increased rate of probe entry in to acidifying compartments.

124 ANSWER 22 OF 134 MEDLINE
ACCESSION NUMBER: 1999076316 MEDLINE
DOCUMENT NUMBER: 99076316 PubMed ID: 9859213
TITLE: Improved transfection efficiency of chicken gonadal
primordial germ cells for the production of transgenic
poultry.
AUTHOR: Hong Y H; Moon Y K; Jeong D K; Han J Y
CORPORATE SOURCE: Department of Animal Science and
Technology, College of
Agriculture and Life Sciences, Seoul National University,
Suwon, Korea.
SOURCE: TRANSGENIC RESEARCH, 6:998 Jul 7 (4) 247-
52.
Journal code: 9209120, ISSN: 0962-8319

PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal Article; JOURNAL ARTICLE
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199901
ENTRY DATE: Entered SIN: 19990202
Last Updated on SIN: 19990202
Entered Medline: 19990119

AB: **Electroporation** is a common method of DNA transfection for many types of eukaryotic cells, but has not been attempted in avian primordial germ cells (PGCs). DNA uptake in chicken primordial germ cells (PGCs) was tested using **electroporation** with and without dimethyl sulfoxide (DMSO). Gonadal tissue and chicken embryonic fibroblasts (CEFs) were isolated from 6-day-old embryos (stage 29), transfected with pCMV-beta carrying the bacterial lacZ gene, and cultured for 24 h. Gonadal primordial germ cells (gPGCs) were purified from culture using a Ficol gradient. The addition of DMSO significantly increased the transfection efficiency of gPGCs but had no effect on chicken embryonic fibroblasts. **Electroporation** of gPGCs resulted in an 80% transfection efficiency compared with about 17% observed with **liposomes**. Approximately 200 transfected gPGCs were injected into 2.5-day-old (stage 17) recipient embryos and the eggs were incubated for an additional 3.5 days, 7.5 days or to hatching. The exogenous gene was detectable in 100%, 67% and 41% of the 6-day-old (stage 29), 10-day-old (stage 36) recipient embryos and hatched chicks gonads, respectively. PCR analysis of DNA from the hatched chicks showed that exogenous lacZ DNA was detected only in the gonad and not the liver and heart. These results indicated that **electroporation** was a suitable means of transfecting avian gPGCs for the goal of producing transgenic poultry.

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11 482 S MICROCITTE MEDIATED CHROMOSOME
TRANSFER
12 11852 SELECTROPORA?
13 2 S L I AND L 2
14 2 DUP REM L 3 (0 DUPLICATES REMOVED)
15 173 SELECTROTRANSFECT?
16 26 S TRANSFECT AND ELECTRIC?
17 2095 S TRANSFECT? AND PULSE
18 552069 S CHROMOSOME
19 41 S L 7 AND L 8
110 23 DUP REM 19 (18 DUPLICATES REMOVED)
111 13745 S L 2 OR L 5 OR L 7
112 2 S L 11 AND L 1
113 0 S L 12 NOT L 3
114 775 S L 8 AND L 11
115 831822 S MICELLE OR LIPID OR LIPOSOME
116 13 S L 14 AND L 15
117 9 DUP REM L 16 (4 DUPLICATES REMOVED)
118 825 S L 11(S) L 15
119 11928 S L 2 OR L 5
120 477 S L 15(S) L 19
121 280 DUP REM L 20 (197 DUPLICATES REMOVED)
122 2737 S L ARG L DNA
123 0 S L 21 AND L 22
124 184 S L 21 NOT PY-1999

-- s facs or cell sort?

125 23471 FAC'S OR CELL SORT?

-- s H and 125

126 2 L 1 AND L 25

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127 2 DUP REM L 26 (0 DUPLICATES REMOVED)

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FAM ----- AN, PI and PRAI in table, plus Patent Family data
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IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TL, SL, TL
SCAN ----- CC, SX, TL, SL, TL (random display, no answer numbers;
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e.g., DSCAN or DISPLAY SCAN)
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TABS ----- ABS, indented, with text labels

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 BIB ----- BIB, indented with text labels
 IMAX ----- MAX, indented with text labels
 SLD ----- SLD, indented with text labels

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 OBIB ----- OBIB, indented with text labels

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 SBIB ----- IBIB, no citations

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 containing hit terms
 HITERN ----- HITERN and its text modification
 HITSTR ----- HITERN, its text modification, its CA index name, and
 its structure diagram
 HITSEQ ----- HITERN, its text modification, its CA index name, its
 structure diagram, plus NFE and SEQ fields
 FHITSTR ----- First HITERN, its text modification, its CA index name,
 and
 its structure diagram
 FHITSEQ ----- First HITERN, its text modification, its CA index name,
 its
 structure diagram, plus NFE and SEQ fields
 KWIC ----- Hit term plus 20 words on either side
 OCC ----- Number of occurrence of hit term and field in which it
 occurs

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 FHITSTR, FHITSEQ, FHITSEQ, KWIC, and OCC) may be used with
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127 ANSWER 1 OF 2 CAPUS. COPYRIGHT 2002 ACS
 TI Detection and interpretation of mutations using animal cell hosts to
 express human genes present on a single copy of a human
 chromosome
 SO PC Int. Appl. 149 pp.
 CODEN: PIXXD2

127 ANSWER 2 OF 2 CAPUS. COPYRIGHT 2002 ACS
 TI Diagnosis, prognosis and treatment of cancer related to the Barx2
 gene
 SO PC Int. Appl. 190 pp.
 CODEN: PIXXD2

→ d; bib ab 1-2

127 ANSWER 1 OF 2 CAPUS. COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002276207 CAPUS
 DOCUMENT NUMBER: 136289911
 TITLE: Detection and interpretation of mutations using
 animal
 cell host, to express human genes present on a single
 copy of a human chromosome
 INVENTOR(S): Beaudet, Arthur, Bodamer, Olaf, Killary, Ann,
 Foxell
 Mercedes
 PATENT ASSIGNEE(S): Board of Regents, the University of Texas
 System, USA

SOURCE: PC Int. Appl. 149 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002029107	A2	20020411	WO 2001-US30968	20011002
W1	AF, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HE, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, HE, IL, LU, MC, NL, PT, SE, TR, BE, RU, CH, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

US 2002137067 A1 20020926 US 2001-969861 20011002
 PRIORITY APPL. INFO: US 2000-237471P P 200011002
 AB The present invention relates to a method for detection and
 interpretation

of loss-of-function or gain-of-function mutations for test genes of
 interest. The genes of interest include those assoc. with inherited
 genetic disorders. The method involves testing for gene function by
 transferring single copies of individual human chromosomes into a
 suitable
 host cell. Human cells are obtained from peripheral blood. Transfer
 is

preferably by **microcell-mediated chromosome transfer**. Transfer is screened for anal. of expression of a
 marker gene closely linked to the gene of interest. Guidelines for the
 selection of host cells and marker genes that can be used to detect
 transfer are described. The preferred markers are cell surface
 proteins
 such as ICAM-1 that can be easily assayed or used for fluorescence
 activated **cell sorting**. The method is demonstrated by
 detection of a mutation in the human LDL receptor gene on
 chromosome 19
 using CHO cells as a host.

127 ANSWER 2 OF 2 CAPUS. COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 20002900847 CAPUS
 DOCUMENT NUMBER: 13469875
 TITLE: Diagnosis, prognosis and treatment of cancer related
 to the Barx2 gene
 INVENTOR(S): Nelkin, Barry David; Gabra, Hani; Sellar, Grant
 Clark;
 Watson, Janet Elizabeth Vivienne; Porteous, David John
 PATENT ASSIGNEE(S): Imperial Cancer Research Technology
 Limited, U.K. Johns
 Hopkins University

SOURCE: PC Int. Appl. 190 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000077252	A1	20001221	WO 2000-GB2328	20000615

W: AL, AG, AI, AM, AN, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GI, GL, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LL, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PE, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SM, SN, SR, ST, SZ, TA, TC, TD, TF, TG, TH, TJ, TL, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, EG, KZ, MD, RU, TJ, TM, RW, GH, GM, KE, LS, MW, MZ, SD, SE, SZ, TZ, UG, ZW, AI, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IL, IT, MC, NL, PL, SE, SI, BE, BG, CE, CG, CL, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG, EP 1183392 A1 20020306 EP 2000-942186 20000615 R: AI, BE, CH, DE, DK, ES, FR, GB, GR, IE, IL, IT, NL, SI, MC, PL, IE, SE, TJ, TV, FI, RO

PRIORITY APPL. INFO: US 1999-139320P P 19990615 GB 2000-5466 A 20000308 WO 2000-GB2328 W 20000615

AB It has been found that the Barx2 gene is mutated in ovarian cancer. The invention provides methods of diagnosis, prognosis and treatment of cancer related to the Barx2 gene by obtaining a sample contg. nucleic acid from the patient and hybridizing it with a nucleic acid specific to the Barx2 gene, or a mutant allele thereof. REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

--s yac2 or mac?
128 1447377 YAC2 OR MAC?

--s artificial chromosome
129 9621 ARTIFICIAL CHROMOSOME

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FILE "MEDLINE, BIOSIS, CAPLUS" ENTERED AT 15:05:47 ON 02 OCT 2002

11 482 S MICROCELL MEDIATED CHROMOSOME TRANSFER

12 11852 S ELECTROPORAT?

13 2 S L1 AND L2

14 2 DUFEM13 (0 DUPLICATES REMOVED)

15 173 S ELECTROTRANSFECT?

16 26 S TRANSFECT AND ELECTRIC?

17 2095 S TRANSFECT AND PULSE

18 552069 S CHROMOSOME

19 41 S L7 AND L8

110 2 DUFEM19 (18 DUPLICATES REMOVED)

111 13745 S L2 OR L5 OR L7

112 2 S L11 AND L11

113 6 S L12 NO L13

114 775 S L8 AND L11

115 831822 S MICELLE OR LIPID OR LIPOSOME

116 13 S L14 AND L15

117 9 DUFEM116 (4 DUPLICATES REMOVED)

118 825 S L16 S L15

119 11928 S L2 OR L5

120 477 S L17 S L19

121 280 DUFEM129 (197 DUPLICATES REMOVED)

122 2737 S L APO L D7A

123 6 S L21 AND L22

124 184 S L21 NO L PY 1999

125 22471 S LACS OR CELL SORT?

126 2 S L11 AND L25

127 2 DUFEM126 (0 DUPLICATES REMOVED)

128 1447377 YAC2 OR MAC?

129 9621 S ARTIFICIAL CHROMOSOME

--s 125 and 129

130 17 L25 AND L29

--d upcm130

PROCESSING COMPLETED FOR L30

131 12 DUFEM130 (5 DUPLICATES REMOVED)

--d rise 1-12

131 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS

11 Collections of transgenic animal lines in which a subset of cells characterized by expression of an endogenous "characterizing" gene and

uses

SO PCT Int. Appl. 170 pp.

CODEN: PIXND2

131 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2002 ACS

11 Genetically engineered reporter system expressing fluorescent protein for rapid detection of cell surface receptor-ligand binding and uses in high-throughput screening assays

SO PCT Int. Appl. 66 pp.

CODEN: PIXND2

131 ANSWER 3 OF 12 MEDLINE

11 Development of a transgenic green fluorescent protein lineage marker for steroidogenic factor 1.

SO MOLECULAR ENDOCRINOLOGY, (2002 Oct) 16 (10) 2360-70. Journal code: 8801431, ISSN: 0888-8809.

131 ANSWER 4 OF 12 MEDLINE

DUPLICATE 1

11 Retrofitting of a satellite repeat DNA-based murine **artificial chromosome** (ACs) to contain loxP recombination sites.

SO GENE THERAPY, (2002 Jun) 9 (11) 719-23.

Journal code: 9421525, ISSN: 0969-7128.

131 ANSWER 5 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

11 Hybridization to high-density filter arrays of a Brugia malayi BAC library

with biotinylated oligonucleotides and PCR products.

SO Biotechniques, (June, 2001) Vol. 30, No. 6, pp. 1216-1224, print. ISSN: 0736-6205.

131 ANSWER 6 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE 2

11 Membrane cofactor protein (MCP; CD46) expression in transgenic mice.

SO Clinical and Experimental Immunology, (May, 2001) Vol. 124, No. 2, pp.

180-189, print.

ISSN: 0009-9104.

131 ANSWER 7 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

11 A flow cytometry technique for measuring chromosome-mediated gene

transfer.

SO Cytometry, (June 1, 2001) Vol. 44, No. 2, pp. 100-105, print.

ISSN: 0196-4763.

131 ANSWER 8 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

11 A human CD34 PAC clone targets an earlier hematopoietic cell than the

endogenous murine CD14 gene in transgenic mice.
 SO BLOOD, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 821a
 print
 Meeting Info: 42nd Annual Meeting of the American Society of
 Hematology
 San Francisco, California, USA December 01-05, 2000 American
 Society of
 Hematology
 ISSN: 0006-4971.

131 ANSWER 9 OF 12 MEDLINE
 II A fast method to diagnose chromosome and plasmid loss in
 Saccharomyces
 cerevisiae strains
 SO YEAST, (1999) July 15 (103) 1999-19
 Journal code: 8607637 ISSN: 0749-502X.

131 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS
 II High-throughput screening for novel enzymes by co-encapsulation
 and
 fluorescence activated cell sorting in genome
 expression libraries
 SO PCT Int. Appl., 95 pp.
 CODEN: PINXD2

131 ANSWER 11 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL
 ABSTRACTS INC.
 II Modification of bacterial artificial chromosome clones
 using Cre recombinase: Introduction of selectable markers for
 expression
 in eukaryotic cells.
 SO Genome Research, (April, 1998) Vol. 8, No. 4, pp. 404-412.
 ISSN: 1038-9051.

131 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS
 II Human genome analysis using chromosome sorting
 SO Tanpakushitsu Kakusan Koso (1993), 38(3), 268-77
 CODEN: TAKKAI ISSN: 0039-9450

-s flow cytomet?
 132 131727 FLOW CYTOMETRY?

-d his

(FILE HOME ENTERED AT 15:05:39 ON 02 OCT 2002)

FILE MEDLINE, BIOSIS, CAPLUS ENTERED AT 15:05:47 ON
 02 OCT 2002

11 482 S MICROCELL-MEDIATED CHROMOSOME
 TRANSFER
 12 1682 S ELECTROPORAT?
 13 2 S L1 AND 12
 14 2 D U P R E M 13 (0 DUPLICATES REMOVED)
 15 173 S ELECTROTRANSFECT?
 16 26 S TRANSFECT AND ELECTRIC?
 17 2695 S TRANSFECT? AND PULSE
 18 552069 S CHROMOSOME
 19 41 S L7 AND 18
 110 23 D U P E M 19 (8 DUPLICATES REMOVED)
 111 6745 S L2 OR L5 OR L7
 112 2 S L11 AND 11
 113 6 S L12 NOT L3
 114 775 S L8 AND 111
 115 81822 S M P E L L E O R L I P I D O R L I P O S O M I
 116 13 S L14 AND 115
 117 9 D U P E M 116 (4 DUPLICATES REMOVED)
 118 825 S L116 S L15
 119 11928 S L2 OR L5
 120 477 S L15 S L19
 121 289 D U P E M 120 (19 DUPLICATES REMOVED)
 122 2737 S L A R G E D N A
 123 6 S L121 AND 122
 124 184 S L21 NOT PY (1999)

125 23471 S L A C S O R C E L L S O R T ?
 126 2 S L1 AND 125
 127 2 D U P R E M 126 (0 DUPLICATES REMOVED)
 128 1447377 S Y A C ? O R M A C ?
 129 9621 S A P T H I C A L C H R O M O S O M E
 130 17 S L125 AND 129
 131 12 D U P R E M 130 (5 DUPLICATES REMOVED)
 132 131727 S F L O W C Y T O M E T R ?

-s 129 and 132

133 46129 AND 132

-dup rem 133

PROCESSED COMPLETED FOR 133

134 29 D U P R E M 133 (17 DUPLICATES REMOVED)

-s 134 not 131

135 28134 NOT 131

-d his 1-28

135 ANSWER 1 OF 28 MEDLINE
 II Rescue of the lethal self(-) phenotype by the human SCT locus.
 SO BLOOD, (2002 Jun 1) 99 (11) 3931-8.
 Journal code: 7603509. ISSN: 0006-4971.

135 ANSWER 2 OF 28 MEDLINE
 II Differential regulation of the human and murine CD34 genes in
 hematopoietic stem cells.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF
 SCIENCES OF THE UNITED STATES OF
 AMERICA, (2002 Apr 30) 99 (9) 6246-51.
 Journal code: 7505876. ISSN: 0027-8424.

135 ANSWER 3 OF 28 MEDLINE
 II Expression of a reporter gene after microinjection of mammalian
 artificial chromosomes into pronuclei of bovine zygotes.
 SO MOLECULAR REPRODUCTION AND DEVELOPMENT, (2001
 Dec) 60 (4) 433-8.
 Journal code: 5903333. ISSN: 1040-452X.

135 ANSWER 4 OF 28 MEDLINE
 II Efficient in-vitro transfer of a 60-Mb mammalian artificial
 chromosome into murine and hamster cells using cationic lipids and
 dendrimers.
 SO CHROMOSOME RESEARCH, (2001) 9 (6) 475-85.
 Journal code: 9313452. ISSN: 0967-3849.

135 ANSWER 5 OF 28 MEDLINE
 II Specific cytogenetic labeling of bovine spermatozoa bearing X or Y
 chromosomes using fluorescent in situ hybridization (FISH).
 SO Genet Sel Evol, (2001 Jan-Feb) 33 (1) 89-98.
 Journal code: 9114088. ISSN: 0999-193X.

135 ANSWER 6 OF 28 MEDLINE
 II 6p abnormalities and TNF-alpha over-expression in retinoblastoma
 cell
 line.
 SO CANCER GENETICS AND CYTOGENETICS, (2001 Jul 15) 128
 (2) 141-7.
 Journal code: 7909240. ISSN: 0165-4608.

135 ANSWER 7 OF 28 MEDLINE
 II A flow cytometry technique for measuring
 chromosome-mediated gene transfer.
 SO CYTOMETRY, (2001 Jun 1) 44 (2) 100-5.
 Journal code: 8102328. ISSN: 0196-4763.

135 ANSWER 8 OF 28 MEDLINE
 II Satellite DNA-based artificial chromosomes
 --chromosomal vectors.
 SO TRENDS IN BIOTECHNOLOGY, (2000 Oct) 18 (10) 402-3.
 Journal code: 8310903. ISSN: 0167-7799.

135 ANSWER 9 OF 28 MEDLINE

II Generation of transgenic mice and germline transmission of a mammalian

artificial chromosome introduced into embryos by pronuclear microinjection.

SO CHROMOSOME RESEARCH (2000) 8 (3) 183-91
Journal code: 931-4521 ISSN: 0967-3849

135 ANSWER 10 OF 28 MEDLINE

II Mammalian **artificial chromosome** pilot production facility: large-scale isolation of functional satellite DNA-based **artificial chromosomes**.

SO CYTOMETRIC (1999) 1 (1) 15 (2) 129-32
Journal code: 8102328 ISSN: 0967-4763

135 ANSWER 11 OF 28 MEDLINE

II B-cell tumor genes in mice carrying a yeast **artificial chromosome**-based immunoglobulin heavy chain translocus is independent of the heavy chain intron enhancer (Hmu).

SO CANCER RESEARCH (1999) 59 (1) 59 (21) 5625-8
Journal code: 2984705R ISSN: 0008-5472

135 ANSWER 12 OF 28 MEDLINE

II A human immunoglobulin lambda locus is similarly well expressed in mice and humans.

SO JOURNAL OF EXPERIMENTAL MEDICINE (1999) May 179 (10) 161-20
Journal code: 2985109R ISSN: 0022-1007

135 ANSWER 13 OF 28 MEDLINE

II Long-term stability of large insert genomic DNA episomal shuttle vectors in human cells

SO NUCLEIC ACIDS RESEARCH (1999) Apr 27 (7) 1674-82
Journal code: 0411011 ISSN: 0305-1048

135 ANSWER 14 OF 28 MEDLINE

II CD164, a novel sialomucin on CD34⁺ and erythroid subsets, is located on human chromosome 6q21.

SO BLOOD (1998) Aug 1 (92) 3:849-66
Journal code: 7603509 ISSN: 0006-4971

135 ANSWER 15 OF 28 MEDLINE

II The Beige Chedak-Higashi syndrome gene encodes a widely expressed ectosolic protein.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997) Nov 271 (47) 29790-4
Journal code: 2985121P ISSN: 0021-9258

135 ANSWER 16 OF 28 MEDLINE

II A yeast **artificial chromosome** (YAC) containing the critical region of the X-linked lymphoproliferative disease (XLP) locus

SO GENOMICS (1997) Jan 39 (1) 55-65
Journal code: 8800135 ISSN: 0888-7547

135 ANSWER 17 OF 28 MEDLINE

II Large DNA fragment sizing by **flow cytometry**: application to the characterization of plasmid **artificial chromosome** (PAC) clones

SO NUCLEIC ACIDS RESEARCH (1996) Nov 24 (21) 4202-9
Journal code: 0411011 ISSN: 0305-1048

135 ANSWER 18 OF 28 MEDLINE

II Characterization of a human chromosome 22 enriched bacterial **artificial chromosome** sublibrary

SO GENETIC ANALYSIS (1995) Oct 12 (2) 73-9
Journal code: 950940J

135 ANSWER 19 OF 28 MEDLINE

II Introduction of YACs containing a putative mammalian replication

origin

into mammalian cells can generate structures that replicate autonomously

SO SOMATIC CELL AND MOLECULAR GENETICS (1993) Mar 19 (2) 171-92
Journal code: 8403568 ISSN: 0740-7750

135 ANSWER 20 OF 28 MEDLINE

II Low-frequency chimera yeast **artificial chromosome** libraries from flow-sorted human chromosomes 16 and 21

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1997) Feb 1 (90) (3) 1063-7
Journal code: 7505876 ISSN: 0027-8424

135 ANSWER 21 OF 28 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Human dendritic cells can be effectively transduced by new generation

herpes virus-free herpes simplex amplicon vectors.
SO BLOOD (November 16, 2001) Vol. 98, No. 11 Part 1, pp. 423a.
http://www.bloodjournal.org/print.
Meeting Info: 43rd Annual Meeting of the American Society of Hematology,
Part 1, Orlando, Florida, USA December 07-11, 2001
ISSN: 0006-4971

135 ANSWER 22 OF 28 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Response from Brown.
SO Trends in Biotechnology, (October, 2000) Vol. 18, No. 10, pp. 403.
print
ISSN: 0167-7799

135 ANSWER 23 OF 28 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Molecular analysis of chromosome 6p rearrangement in retinoblastoma.
SO Genetics in Medicine, (January/February, 2000) Vol. 2, No. 1, pp. 105.
print.
Meeting Info: Annual Clinical Genetics Meeting Palm Springs, California,
USA March 09-12, 2000 American College of Medical Genetics
ISSN: 1098-3600

135 ANSWER 24 OF 28 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Human satellite DNA-based **artificial chromosomes**.
SO European Journal of Human Genetics, (June, 2000) Vol. 8, No. Supplement
, pp. 40. print.
Meeting Info: European Human Genetics Conference 2000
Amsterdam,
Netherlands May 27-February 30, 2000 European Society of Human Genetics
ISSN: 1018-4813

135 ANSWER 25 OF 28 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II All that FISH can do for you.
SO M8 (Medicine Sciences), (Nov., 1997) Vol. 13, No. 11, pp. 1294-1295
ISSN: 0767-0974

135 ANSWER 26 OF 28 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Chromosomal genetics and molecular genetics: A successful hybridation.
SO M8 (Medicine Sciences), (Nov., 1997) Vol. 13, No. 11, pp. 1237-1238
ISSN: 0767-0974

135 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2002 ACS

11 Characterization and sequence study of the miniature genome in the marine chordate *Oncopeltus chiroca*

SO Science (Washington, DC, United States) (2001), 294(8551), 2506
CODEN: SCIEAS, ISSN: 0036-8075

135 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2002 ACS
11 Methods and nucleic acid probe compositions for chromosome-specific staining and their uses, including detection of genetic rearrangement

in chronic myelogenous leukemia

SO Can. Pat. Appl. 159 pp
CODEN: CPNLTB

publibab 25,24,20,19,11,10,7

135 ANSWER 25 OF 28 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 99832647 BIOSIS

DOCUMENT NUMBER: PREV:998000/2647

TITLE: All that FISH can do for you.

AUTHOR(S): Gilgall, Rantz, Simone (C), Schrocek, Evelyn; Eysenage,

Marc G.; Du Manoir, Stan; Ried, Thomas

CORPORATE SOURCE: (1) 9 rue Basse, 54330 Clerey-Frenon France

SOURCE: M-S (Medicine Sciences), (Nov., 1997) Vol. 13, No. 11, pp

1294-1298.

ISSN: 0767-0974.

DOCUMENT TYPE: Article

LANGUAGE: French

135 ANSWER 24 OF 28 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2000369788 BIOSIS

DOCUMENT NUMBER: PREV200000369788

TITLE: Human satellite DNA-based **artificial chromosomes**.

AUTHOR(S): Csonka, Erika (1); Cserpan, L. (1); Fodor, K. (1); Hollo,

G. (1); Katona, R. (1); Kereso, J. (1); Praznovsky, L. (1); Szakal, B. (1); Telemus, A.; de Jong, G.; Udvardy, A.; Hadlaczky, Gy. (1)

CORPORATE SOURCE: (1) Institute of Genetics, BEC, Szeged Hungary

SOURCE: European Journal of Human Genetics, (June, 2000) Vol. 8

No. Supplement 1, pp. 40, print.

Meeting Info: European Human Genetics Conference 2000 Amsterdam, Netherlands May. 27-February 30, 2000

European

Society of Human Genetics
ISSN: 1018-4813.

DOCUMENT TYPE: Conference

LANGUAGE: English

SUMMARY LANGUAGE: English

135 ANSWER 20 OF 25 MEDLINE

ACCESSION NUMBER: 93157343 MEDLINE

DOCUMENT NUMBER: 93157343 PubMed ID: 8410075

TITLE: Low-frequency chimeric yeast **artificial chromosome** libraries from flow-sorted human chromosomes 16 and 21.

AUTHOR: McCormick M K; Campbell E; Deaven T; Moyzis R
CORPORATE SOURCE: Life Sciences Division, University of California, MS80 Los

Alamos National Laboratory, NM 87544.

SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE

UNITED STATES OF AMERICA, (1993 Feb 1) 90 (3)

1063-7

Journal code: 7505876 ISSN: 0027-8424

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199303

ENTRY DATE: Entered SIN: 19930326

Last Updated on SIN: 19930326

Entered Medline: 19930305

AB Construction of chromosome-specific yeast **artificial chromosome** (YAC) libraries from sorted chromosomes was undertaken

(i) to eliminate drawbacks associated with first-generation total genomic

YAC libraries, such as the high frequency of chimeric YACs, and (ii) to

provide an alternative method for generating chromosome-specific YAC

libraries in addition to isolating such collections from a total genomic library. Chromosome-specific YAC libraries highly enriched for human

chromosomes 16 and 21 were constructed. By maximizing the percentage of

fragments with two ligatable ends and performing yeast transformations

with less than saturating amounts of DNA in the presence of carrier DNA,

YAC libraries with a low percentage of chimeric clones were obtained. The

smaller number of YAC clones in these chromosome-specific libraries

reduces the effort involved in PCR-based screening and allows hybridization methods to be a manageable screening approach.

135 ANSWER 19 OF 28 MEDLINE

ACCESSION NUMBER: 93289448 MEDLINE

DOCUMENT NUMBER: 93289448 PubMed ID: 8511674

TITLE: Introduction of YACs containing a putative mammalian replication origin into mammalian cells can generate structures that replicate autonomously.

AUTHOR: Nonet G H; Wahl G M

CORPORATE SOURCE: Gene Expression Laboratory, Salk Institute for Biological

Studies, La Jolla, California 92037.

CONTRACT NUMBER: GM27754 (NIGMS)

NCICA48405 (NCI)

SOURCE: SOMATIC CELL AND MOLECULAR GENETICS, (1993 Mar) 19 (2)

171-92.

Journal code: 8403568, ISSN: 0740-7750.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199307

ENTRY DATE: Entered SIN: 19930723

Last Updated on SIN: 19930723

Entered Medline: 19930709

AB Yeast **artificial chromosomes** (YACs) containing or lacking a biochemically defined DNA replication origin were transferred

from yeast to mammalian cells in order to determine whether origin-dependent autonomous replication would occur. A specialized YAC

vector was designed to enable selection for YACs in mammalian cells and

for monitoring YAC abundance in individual mammalian cells. All of eight

clones made with linear and circularized YACs lacking the origin and seven

of nine clones made with linear and circularized YACs containing the origin region contained single copies of the transfected YAC, along

with various amounts of yeast DNA integrated into single but different

chromosomal sites. By contrast, two transformants derived from circularized YACs containing the putative replication origin showed very heterogeneous YAC copy number and numerous integration sites when analyzed after many generations of in vitro propagation. Analysis of both clones at an early time after fusion revealed variously sized extrachromosomal YAC yeast structures reminiscent of the extrachromosomal elements found in some cells harboring amplified genes. The data are consistent with the interpretation that YACs containing a biochemically defined origin of replication can initially replicate autonomously, followed by integration into multiple chromosomal locations, as has been reported to occur in many examples of gene amplification in mammalian cells.

135 ANSWER 11 OF 28 MEDLINE
 ACCESSION NUMBER: 2000019472 MEDLINE
 DOCUMENT NUMBER: 20019472 PubMed ID: 10554044
 TITLE: B-cell tumorigenesis in mice carrying a yeast **artificial chromosome**-based immunoglobulin heavy c-myc translocus is independent of the heavy chain intron enhancer (Emu).
 AUTHOR: Palomo C; Zou X; Nicholson LC; Butler CL; Bruggemann M
 CORPORATE SOURCE: Laboratory of Developmental Immunology, The Babraham Institute, Cambridge, United Kingdom.
 SOURCE: CANCER RESEARCH (1999 Nov 1) 59 (21) 5625-8.
 Journal code: 2084705R, ISSN: 0008-5472.

PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199912
 ENTRY DATE: Entered STN: 20000113
 Last Updated on STN: 20000113
 Entered Medline: 19991202

AB: We have used YAC (yeast **artificial chromosome**) technology to create large translocation regions where the c-myc proto-oncogene is coupled to the core region of the human immunoglobulin heavy chain (IgH) locus (from VH2-5 through to Cdelta). Chimeric mice were obtained from embryonic stem cells carrying a single copy of the 240-kb IgH c-myc translocation region. B-cell tumorigenesis occurs in the translocus mice, even when the entire Emu intron enhancer region between the joining segments and switch mu is deleted. This demonstrates that as yet unidentified regulatory elements in the IgH locus, independent from the known enhancers, are sufficient to cause B-cell specific activation of c-myc after translocation. The phenotype of tumors from IgH c-myc YAC transgenic mice with or without Emu (B220+, IgM+, IgD+) is reminiscent of Burkitt's lymphoma. A rapidly expanding abnormal B-cell population is present at birth and accumulates in bone marrow, periphery, and spleen, well before discrete tumor establishment. Molecular analysis identified a clonal origin, with rearrangement of one mouse heavy chain allele retained in tumor cells from different sites, whereas subsequent rearrangements of

heavy or light chain loci can be diverse. These mice routinely develop mature B-cell tumors early in life and may provide an invaluable resource of a B-cell lymphoma model.

135 ANSWER 10 OF 28 MEDLINE
 ACCESSION NUMBER: 2000019596 MEDLINE
 DOCUMENT NUMBER: 20019596 PubMed ID: 10554168
 TITLE: Mammalian **artificial chromosome** pilot production facility: large-scale isolation of functional satellite DNA-based **artificial chromosomes**.

AUTHOR: deJong G; Telemus AH; Telemus H; Perez CE; Drayer JL

Hadiaczky G
 CORPORATE SOURCE: Chromos Molecular Systems, Inc., Vancouver, British Columbia, Canada. gdejong@chromos.com

SOURCE: CYTOMETRY (1999 Feb 1) 35 (2) 129-33.
 Journal code: 8102328, ISSN: 0196-4763.

PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal Article (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199911
 ENTRY DATE: Entered STN: 20000113
 Last Updated on STN: 20000113
 Entered Medline: 19991130

AB: BACKGROUND: A pilot production facility has been established to isolate mammalian **artificial chromosomes** at high purity by using **flow cytometric** techniques. Dicentric chromosomes have been generated by the targeted amplification of pericentric heterochromatic and centromeric DNA by activating the "megareplicator." Breakage of these dicentric chromosomes generates satellite DNA-based **artificial chromosomes** (SATAC) from 60 to 400 megabases. METHODS: For large-scale production, we have developed cell lines capable of carrying one or two SATACs. A SATAC, because of a high adenine-thymine (AT) composition, is easily identified and sorted by using chromomycin A3 and Hoechst 33258 stains and a dual laser high-speed flow cytometer. A prototype SATAC (60 megabases) has been characterized. The prototype SATAC has been isolated from an original rodent-human hybrid cell line and transferred by using modified microcell fusion into a CHO production cell line. RESULTS: Metaphase chromosomes from this production cell line were isolated in a modified polyamine buffer, stained, and sorted by using a modified sheath buffer that maintains condensed chromosomes. SATACs are routinely sorted at rates greater than 1 million per hour. Sorted SATACs have been transferred to a variety of cells by using microcell fusion technology and were found to be functional. CONCLUSIONS: By developing new SATAC-containing cell lines with fewer numbers of chromosomes in conjunction with operating a high-speed flow sorter we have effectively generated an efficient production facility geared purely for the isolation of SATACs.

135 ANSWER 7 OF 28 MEDLINE
 ACCESSION NUMBER: 2001297137 MEDLINE
 DOCUMENT NUMBER: 21272265 PubMed ID: 11378859
 TITLE: A **flow cytometry** technique for

measuring chromosome-mediated gene transfer
 AUTHOR Vanderbyl S, MacDonald N, de Jong G
 CORPORATE SOURCE Chromos Molecular Systems, Inc., Burnaby,
 British Columbia,
 Canada

SOURCE CYTOMETRY, (2001 Jun 1) 44 (2) 100-5
 Journal code: 8102328 ISSN: 0196-4763
 PUBLICATION: United States
 DOCUMENT TYPE Journal, Article, JOURNAL ARTICLE
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200109
 ENTRY DATE: Entered STN: 20011001
 Last Updated on STN: 20011001
 Entered Medline: 20010927

ABSTRACT (CONDENSED) Using **artificial chromosome** expression systems (ACes), we have developed a unique and rapid screening technique to quantify delivery of foreign DNA into cells in vitro. Delivery was measured within 24 h after transfection, using **flow cytometry** to detect the transfer of ACes labeled with thymidine analogue. This technique can be used to optimize delivery parameters of

ACes and heterologous DNA into cells and eventually tissue.

METHOD

Chinese hamster ovary (CHO) cells carrying **artificial chromosomes** were grown in media supplemented with iododeoxyuridine (IdUrd). The 60-mb **artificial chromosome** was purified by **flow cytometry** sorting and transfected into Chinese hamster lung fibroblast cells (V79-4) or mouse connective tissue cells [1 Mtk(-)] using LipofectAMINE 2000 (trade mark), a cationic lipid, and

Superfect (trade mark), a cationic dendrimer. The cells were incubated with

an FITC-conjugated anti-bromodeoxyuridine (BrdUrd) antibody and analyzed

by **flow cytometry**. IdUrd-incorporated

artificial chromosome expressing green fluorescent

protein (GFP) was transfected into V79-4 cells. Delivery was

measured at

24 h and GFP expression was detected at 48 h. RESULTS: The delivery of

intact **artificial chromosomes** into V79-4 and 1 Mtk-

cells was detected within 2 h and up to 48 h post-transfection.

Maximum

delivery rates of 20% and 14% were observed using LipofectAMINE 2000 and

Superfect, respectively. **Flow cytometry** data

correlated with microscopic observations. IdUrd incorporation resulted in

less quenching after staining with Hoechst 33258 and chromomycin A3 than

BrdUrd incorporation. The fluorescence intensity of the FITC-conjugated

anti-BrdUrd antibody was greater with IdUrd-incorporated chromosomes than

with BrdUrd-incorporated chromosomes. CONCLUSION: The results indicate

that IdUrd-labeled **artificial chromosomes** can be

detected 24 h after transfection. This efficient, sensitive,

high-throughput detection technique is being used to evaluate and optimize

other transfer technologies (e.g., electroporation and sonoporation), different delivery reagents, and protocols in a variety of cells in vitro.

This work represents the first step in utilizing **artificial**

chromosomes as nonviral vectors for gene therapy.

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DEHS

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FILE MEDLINE BIOSIS CAPLUS ENTERED AT 15:05:47 ON 02 OCT 2002

FILE 4825 MICROCYTET MEDICATED CHROMOSOME TRANSFER

FILE 11852 SELECTROPORATION

FILE 2811 AND 12

FILE 2 DUP REM 13 (6 DUPLICATES REMOVED)

FILE 173 SELECTROTRANSFECT

FILE 268 TRANSFECT AND ELECTRIC

FILE 2095 SELECTECT AND PULSE

FILE 5520695 CHROMOSOME

FILE 41817 AND 18

FILE 23 DUP REM 19 (18 DUPLICATES REMOVED)

FILE 13748812 OR 15 OR 17

FILE 2811 AND 11

FILE 68112 NOT 13

FILE 775818 AND 111

FILE 8318225 MICETITE OR LIPID OR LIPOSOME

FILE 178114 AND 115

FILE 9 DUP REM 116 (4 DUPLICATES REMOVED)

FILE 825811(S) 15

FILE 11928812 OR 15

FILE 4778115(S) 19

FILE 280 DUP REM 120 (197 DUPLICATES REMOVED)

FILE 273781 LARGE DNA

FILE 68121 AND 122

FILE 1848121 NOT 1999

FILE 23471815 S OR CELL SORT

FILE 2811 AND 125

FILE 2 DUP REM 126 (0 DUPLICATES REMOVED)

FILE 144737781 VAC? OR MAC?

FILE 962181 ARTIFICIAL CHROMOSOME

FILE 178125 AND 129

FILE 12 DUP REM 130 (5 DUPLICATES REMOVED)

FILE 13172781 FLOW CYTOMETRY?

FILE 468129 AND 132

FILE 29 DUP REM 133 (17 DUPLICATES REMOVED)

FILE 288134 NOT 131

LOG HOLD

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PASSWORD:

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(FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002)

FILE 'MEDLINE BIOSIS CAPUS' ENTERED AT 15:05:47 ON
02 OCT 2002

I1 482 S MICROCELL-MEDIATED CHROMOSOME
TRANSFER

I2 11852 S HELICITROPORA?

I3 2 S I1 AND I2

I4 2 DUP REM I3 (0 DUPLICATES REMOVED)

I5 173 S HELICITROTRANSECT?

I6 26 S TRANSFECT AND ELECTRIC?

I7 2095 S TRANSFECT? AND PULSE

I8 552669 S CHROMOSOME

I9 41 S I7 AND I8

I10 23 DUP REM I9 (18 DUPLICATES REMOVED)

I11 13745 S I2 OR I5 OR I7

I12 2 S I11 AND I1

I13 6 S I12 NOT I3

I14 775 S I8 AND I14

I15 831822 S MICELLE OR LIPID OR LIPOSOME

I16 13 S I14 AND I15

I17 9 DUP REM I16 (4 DUPLICATES REMOVED)

I18 825 S I15 AND I5

I19 11928 S I2 OR I5

I20 477 S I15 AND I9

I21 280 DUP REM I20 (197 DUPLICATES REMOVED)

I22 2777 S LARGE DNA

I23 6 S I21 AND I22

I24 184 S I21 NOT PY-1999

I25 23471 S FACS OR CELL SORT?

I26 2 S I1 AND I25

I27 2 DUP REM I26 (0 DUPLICATES REMOVED)

I28 1447377 S YAC? OR MAC?

I29 9621 S ARTIFICIAL CHROMOSOME

I30 17 S I28 AND I29

I31 12 DUP REM I30 (5 DUPLICATES REMOVED)

I32 131727 S FLOW CYTOMETRY?

I33 46 S I29 AND I32

I34 29 DUP REM I33 (17 DUPLICATES REMOVED)

I35 28 S I34 NOT I31

FILE 'MEDLINE BIOSIS CAPUS' ENTERED AT 16:18:15 ON
02 OCT 2002

<S CHROMOSOME PAINT

I36 372 CHROMOSOME PAINT

<S FISH AND CHROMOSOME

I37 21919 FISH AND CHROMOSOME

<S FLUORESC?

I38 81101 FLUORESC?

<S I37 AND I38

I39 16387 I37 AND I38

<S I36 OR I39

I40 16551 I36 OR I39

<S I32 OR I25

I41 149247 I32 OR I25

<S I40 AND I41

I42 580 I40 AND I41

<D I42 1-10

I42 ANSWER 2 OF 580 MEDLINE

AN 2002442803 MEDLINE

DN 22188894 PubMed ID: 12200682

TI Infant acute lymphoblastic leukemia: combined cytogenetic,
immunophenotypic and molecular analysis of 77 cases.

AU Borkhardt A, Wuchter C, Viehmann S, Pils S, Teigler-Schlegel A,
Stanulla

M, Zimmermann M, Ludwig W-D, Janka-Schaub G, Schrappe M,
Harbott J

CS Children's University Hospital, Department of Hematology and
Oncology,

Grossen, Germany.

SO LEUKEMIA. (2002 Sep) 16 (9) 1685-90.

Journal code: 8704895, ISSN: 0887-6924.

CY England; United Kingdom

DI (CLINICAL TRIAL)

Journal: Article: (JOURNAL ARTICLE)

(MULTICENTER STUDY)

LA English

FS Priority Journals

FM 200209

ID Entered STN: 20020830

Last Updated on STN: 20020927

Entered Medline: 20020926

I42 ANSWER 2 OF 580 MEDLINE

AN 2002430654 IN-PROCESS

DN 22175179 PubMed ID: 12187044

TI Chromosomal aberrations in transitional cell carcinoma: its
correlation

with tumor behavior.

AU Yu D-S; Chen H-E; Chang S-Y

CS Uro-Oncology Laboratory, Division of Urology, Department of
Surgery,

Tri-Service General Hospital, National Defense Medical Center,
National

Defense College, Taipei, Taiwan ROC.

SO UROLOGIA INTERNATIONALIS. (2002) 69 (2) 129-35.

Journal code: 0417373, ISSN: 0042-1138.

CY Switzerland

DI Journal: Article: (JOURNAL ARTICLE)

LA English

FS IN-PROCESS, NONINDEXED, Priority Journals

ID Entered STN: 20020821

Last Updated on STN: 20020821

I42 ANSWER 2 OF 580 MEDLINE

AN 2002378813 IN-PROCESS

DN 22120540 PubMed ID: 12124698

TI Fetal gender and aneuploidy detection using fetal cells in maternal
blood;

analysis of MLT-Y data.

AL Branchi DW, Simpson JL, Jackson LC, Elias S, Holzgreve W, Evans ML

DUKE EA, Sullivan J M, Klinger K W, Biscioni F Z, Hahn S, Johnsen K L

EVANS D, Wapner R J, Cripe ED de la

CS Division of Genetics, Departments of Pediatrics, Obstetrics and Gynecology, Tufts University School of Medicine, Boston, MA, USA

SO PEDIATRIC DIAGNOSIS, (2002 Jul) 22 (7) 609-17

Journal code: 8706540 ISSN: 0197-3851

CY England: United Kingdom

DI Journal: Article; (JOURNAL ARTICLE)

LA English

PS Ps-PUBLICSS; NONP;DEMLD; Priority Journals

FD Entered STN: 20020719

Last Updated on STN: 20020719

142 ANSWER 4 OF 580 MEDLINE

AN 2002366465 MEDLINE

DN 22105847 PubMed ID: 12110498

TI Lack of interstitial **chromosome** 1p deletions in clinically-detected neuroblastoma

AL Godfried M B, Veenstra M, Valerius A, Sluis P A, Voute P A, Versteeg R

Caron H N

CS Department of Human Genetics, Academic Medical Center, University of

Amsterdam, PO Box 22700, 1100 DE, Amsterdam, The Netherlands

SO EUROPEAN JOURNAL OF CANCER, (2002 Jul) 38 (11) 1513-9

Journal code: 0005273 ISSN: 0959-8049

CY England: United Kingdom

DI Journal: Article; (JOURNAL ARTICLE)

LA English

PS Priority Journals

FM 200209

FD Entered STN: 20020712

Last Updated on STN: 20020914

Entered Medline: 20020913

142 ANSWER 5 OF 580 MEDLINE

AN 2002209316 MEDLINE

DN 21940237 PubMed ID: 11941340

TI Cytogenetic characterization of complex karyotypes in seven established

melanoma cell lines by multiplex **fluorescence** in situ hybridization and DAPI banding

AL Serfluten Hans Jorgen, Ganawan Bastian, Otto Friedrich, Hassmann Rene

Hallermann Christian, Noebel Albrecht, Fuzesi Laszlo

CS Department of Pathology, Georg August University, Göttingen, Germany

SO CANCER GENETICS AND CYTOGENETICS, (2002 Mar) 133 (2) 134-41

Journal code: 7009240 ISSN: 0165-4608

CY United States

DI Journal: Article; (JOURNAL ARTICLE)

LA English

PS Priority Journals

FM 200205

FD Entered STN: 20020412

Last Updated on STN: 20020503

Entered Medline: 20020502

142 ANSWER 6 OF 580 MEDLINE

AN 2002199321 MEDLINE

DN 21929627 PubMed ID: 11933265

TI Quantitative **FISH** analysis on interphase nuclei may improve diagnosis of DNA diploid breast cancers

AL Truong Khuong, Vielh Philippe, Guilly Marie-Goëlle, Kljamenko Jerzy

Sastre-Garau Xavier, Soussaline Francoise, Dutrillaux Bernard, Malbo

Bernard

CS Cytogenetique moleculaire et Oncologie, Unite Mixte de Recherche

147

Centre National de Recherche Scientifique-Institut Curie, Paris, France

Khuong truong a curie fr

SO DIAGNOSTIC CYTOPATHOLOGY, (2002 Apr) 26 (4) 213-6

Journal code: 8506895 ISSN: 8755-1039

CY United States

DI Journal: Article; (JOURNAL ARTICLE)

LA English

PS Priority Journals

FM 200207

FD Entered STN: 20020405

Last Updated on STN: 20020703

Entered Medline: 20020702

142 ANSWER 7 OF 580 MEDLINE

AN 2002159582 MEDLINE

DN 21888357 PubMed ID: 11890998

TI Interphase **fluorescence** in situ hybridization and DNA **flow cytometry** analysis of medulloblastomas with a normal karyotype

AL Rajcan-Separovic Evica, Hendson Glenda, Tang Steven, Seto Emily, Thomson

Toni, Phillips Don, Kalousek Dagmar

CS Department of Pathology, British Columbia's Children's Hospital, 4480 Oak

Street, V6H 3V4, BC, Vancouver, Canada -separovic a cw.bc.ca

SO CANCER GENETICS AND CYTOGENETICS, (2002 Feb) 133 (1) 94-7

Journal code: 7009240 ISSN: 0165-4608

CY United States

DI Journal: Article; (JOURNAL ARTICLE)

LA English

PS Priority Journals

FM 200203

FD Entered STN: 20020314

Last Updated on STN: 20020403

Entered Medline: 20020327

142 ANSWER 8 OF 580 MEDLINE

AN 2002120528 MEDLINE

DN 21671061 PubMed ID: 11813198

TI Telomere length measurement by **fluorescence** in situ hybridization and **flow cytometry**: tips and pitfalls

AL Bachtlocher Gabriela M, Mak Jennifer, Tien Teri, Lansdorp Peter M

CS Terry Fox Laboratory, British Columbia Cancer Agency, Vancouver, British

Columbia, Canada

NC 0129524 (NIAID)

SO CYTOMETRY, (2002 Feb) 47 (2) 89-99

Journal code: 8102328 ISSN: 0196-4763

CY United States

DI Journal: Article; (JOURNAL ARTICLE)

LA English

PS Priority Journals

FM 200204

FD Entered STN: 20020222

Last Updated on STN: 20020406

Entered Medline: 20020405

142 ANSWER 9 OF 580 MEDLINE

AN 2002036247 MEDLINE

DN 21598123 PubMed ID: 11767759

TI Evaluation of three somatic genetic biomarkers as indicators of low dose radiation effects in clean-up workers of the Chernobyl nuclear reactor accident

AL Jones IM, Tucker J D, Tangloris R G, Mendelsohn M L, Pleshanov P, Nelson D

O

CS Biology and Biotechnology Research Program, 1-441 Lawrence Livermore

National Laboratory, Livermore, California, USA -jones20@llnl.gov

NC - P01 C59431 (NCI)
SO - Radiat Prot Dosimetry, (2001) 97 (1) 61-7
Journal code: 8169958, ISSN: 0144-8420
CY - England, United Kingdom
DI - (EXALUATION STUDIES)
Journal: Article: (JOURNAL ARTICLE)

LA - English
FS - Priority Journals
IM - 200204
ID - Entered SIN: 2002-024
Fast Updated on S17: 20020424
Entered Medline: 20-20423

142 ANSWER 10 OF 30 - MEDLINE

AN - 2002035938 - MEDLINE

DN - 21604146 - PubMed ID: 11763711

TI - Use of novel t(11;14) and t(14;18) dual fusion **fluorescence** in situ hybridization probes in the differential diagnosis of lymphomas of

small lymphocytes.

AU - Frater J L; Tsipisakos E K; Hsieh D; Pettay J; Tubbs R R
CS - Department of Clinical Pathology, Cleveland Clinic Foundation, Ohio 44195.

USA.

SO - DIAGNOSTIC MOLECULAR PATHOLOGY, (2001 Dec) 10 (4) 214-22.

Journal code: 9204924, ISSN: 1052-9551.

CY - United States

DI - (EXALUATION STUDIES)

Journal: Article: (JOURNAL ARTICLE)

LA - English

FS - Priority Journals

IM - 200205

ID - Entered SIN: 20020624

Fast Updated on S17: 20020501

Entered Medline: 20020502

--DTHS

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FILE 'MEDLINE BIOSIS, CAPLUS' ENTERED AT 15:05:47 ON 02 OCT 2002

11 - 482 S MICROCELL MEDIATED CHROMOSOME TRANSFER

12 - 11852 S ELECTROPORAT?

13 - 2 S11 AND12

14 - 2 DUP REM13 (6 DUPLICATES REMOVED)

15 - 173 S ELECTROTRANSFECT?

16 - 26 S TRANSFECT AND ELECTRIC?

17 - 2095 S TRANSFECT? AND PULSE

18 - 552069 S CHROMOSOME

19 - 41 S17 AND18

110 - 23 DUP REM19 (18 DUPLICATES REMOVED)

111 - 13745 S12 OR15 OR17

112 - 2 S11 AND11

113 - 6 S112 S O113

114 - 775 S18 AND119

115 - 831822 S MICELLIT OR LIPID OR LIPOSOME

116 - 13 S114 AND115

117 - 9 DUP REM116 (4 DUPLICATES REMOVED)

118 - 825 S117 S O115

119 - 11928 S12 OR15

120 - 477 S117 S O119

121 - 280 DUP REM120 (197 DUPLICATES REMOVED)

122 - 2737 S LARGE DNA

123 - 6 S121 AND122

124 - 184 S12 - NOIPY -1999

125 - 23471 S FACS OR CELL SORT?

126 - 2 S11 AND125

127 - 2 DUP REM126 (6 DUPLICATES REMOVED)

128 - 1447377 S YAC? OR MAC?

129 - 9621 S ARTIFICIAL CHROMOSOME

130 - 17 S125 AND129

131 - 12 DUP REM130 (5 DUPLICATES REMOVED)

132 - 131727 S FLOW CYTOMETER?

133 - 46 S129 AND132

134 - 29 DUP REM133 (17 DUPLICATES REMOVED)

135 - 28 S134 NO1131

FILE 'MEDLINE BIOSIS, CAPLUS' ENTERED AT 16:18:15 ON 02 OCT 2002

136 - 372 S CHROMOSOME PAINT

137 - 21919 S FISH AND CHROMOSOME

138 - 811011 S ELECTROSC?

139 - 16787 S117 AND138

140 - 16551 S116 OR139

141 - 49247 S112 OR125

142 - 580 S140 AND141

--S TRANSFER OR TRANSFECT?

143 - 1190774 TRANSFER OR TRANSFECT?

--S142 AND143

144 - 3 S142 AND143

--DUP REM144

PROCESSING COMPLETED FOR 144

145 - 3 DUP REM144 (6 DUPLICATES REMOVED)

--DTHS O113

145 ANSWER 1 OF 3 - MEDLINE

TI - Molecular cloning and immunogenicity of renal cell carcinoma-associated antigen G250.

SO - INTERNATIONAL JOURNAL OF CANCER, (2000 Mar 15) 85 (6) 865-70

Journal code: 0042124, ISSN: 0020-7136.

145 ANSWER 2 OF 3 - MEDLINE

TI - Generation of transgenic mice and germline transmission of a mammalian artificial **chromosome** introduced into embryos by pronuclear microinjection

SO - CHROMOSOME RESEARCH, (2000) 8 (3) 183-91.

Journal code: 9313452, ISSN: 0967-3849.

145 ANSWER 3 OF 3 - MEDLINE

TI - Dendritic cells generated from blood precursors of chronic myelogenous leukemia patients carry the Philadelphia translocation and can induce

a CML-specific primary cytotoxic T-cell response.

SO - GENES, CHROMOSOMES AND CANCER, (1997 Nov) 20 (3) 215-25.

Journal code: 9007229, ISSN: 1045-2257.

--DTHS

(FILE 'HOME' ENTERED AT 15:05:39 ON 02 OCT 2002)

FILE 'MEDLINE BIOSIS, CAPLUS' ENTERED AT 15:05:47 ON 02 OCT 2002

11 - 482 S MICROCELL MEDIATED CHROMOSOME TRANSFER

12 - 11852 S ELECTROPORAT?

13 - 2 S11 AND12

14 - 2 DUP REM13 (6 DUPLICATES REMOVED)

15 - 173 S ELECTROTRANSFECT?

16 - 26 S TRANSFECT AND ELECTRIC?

17 - 2095 S TRANSFECT? AND PULSE

18 - 552069 S CHROMOSOME

19 - 41 S17 AND18

110 - 23 DUP REM19 (18 DUPLICATES REMOVED)

111 - 13745 S12 OR15 OR17

112 2 S111 AND11
 113 6 S112 NOT11
 114 77 S118 AND11
 115 83822 S M6111 OR LIPID OR LIPOSONE
 116 11 S114 AND115
 117 9 DUP REM116 (4 DUPLICATES REMOVED)
 118 825 S1116 (15
 119 11928 S12 OR115
 120 477 S1116 (19
 121 280 DUP REM120 (97 DUPLICATES REMOVED)
 122 2737 S11 AF61 DNA
 123 6 S121 AND122
 124 184 S121 NOT COPY 1999
 125 23471 S FACS OR CELL SORT?
 126 2 S111 AND125
 127 2 DUP REM126 (0 DUPLICATES REMOVED)
 128 144777 S YAC2 OR MAC?
 129 9621 S ARTIFICIAL CHROMOSOME
 130 17 S125 AND129
 131 12 DUP REM130 (5 DUPLICATES REMOVED)
 132 131727 S FLOW CYTOMETER?
 133 46 S129 AND132
 134 29 DUP REM133 (17 DUPLICATES REMOVED)
 135 28 S134 NOT131

THE MEDLINE BIOSIS CAPLUS ENTERED AT 16:18:15 ON
 02 OCT 2002

136 372 S CHROMOSOME PAINT
 137 21919 S FISH AND CHROMOSOME
 138 817011 S FLUORESC?
 139 16387 S127 AND138
 140 16551 S126 OR139
 141 149247 S132 OF125
 142 580 S140 AND141
 143 1196774 S TRANSFER OR TRANSFECT?
 144 2 S142 AND143
 145 2 DUP REM144 (0 DUPLICATES REMOVED)

-- LOG HOLD

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	18.62	334.52

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SINCE FILE	TOTAL	
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.67

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